



**UNIT CARGO LOADING AND  
DOCUMENTATION  
612-150**

# References

- FM 3-35.4, *Deployment Fort-to-Port* (Appendix I)
- FM 4-01.011, *Unit Movement Operations* (Appendix D)
- FM 55-30, *Army Motor Transport Units and Operations* (Chapter 10)
- FORSCOM/ARNG Reg 55-1, *Unit Movement Planning* (Chapter 5)
- TB 55-46-1, *Standard Characteristics for Transportability of Military Vehicles and Outsized/Overweight Equipment*
- TFA PAM 55-20, *Tiedown Handbook for Truck*

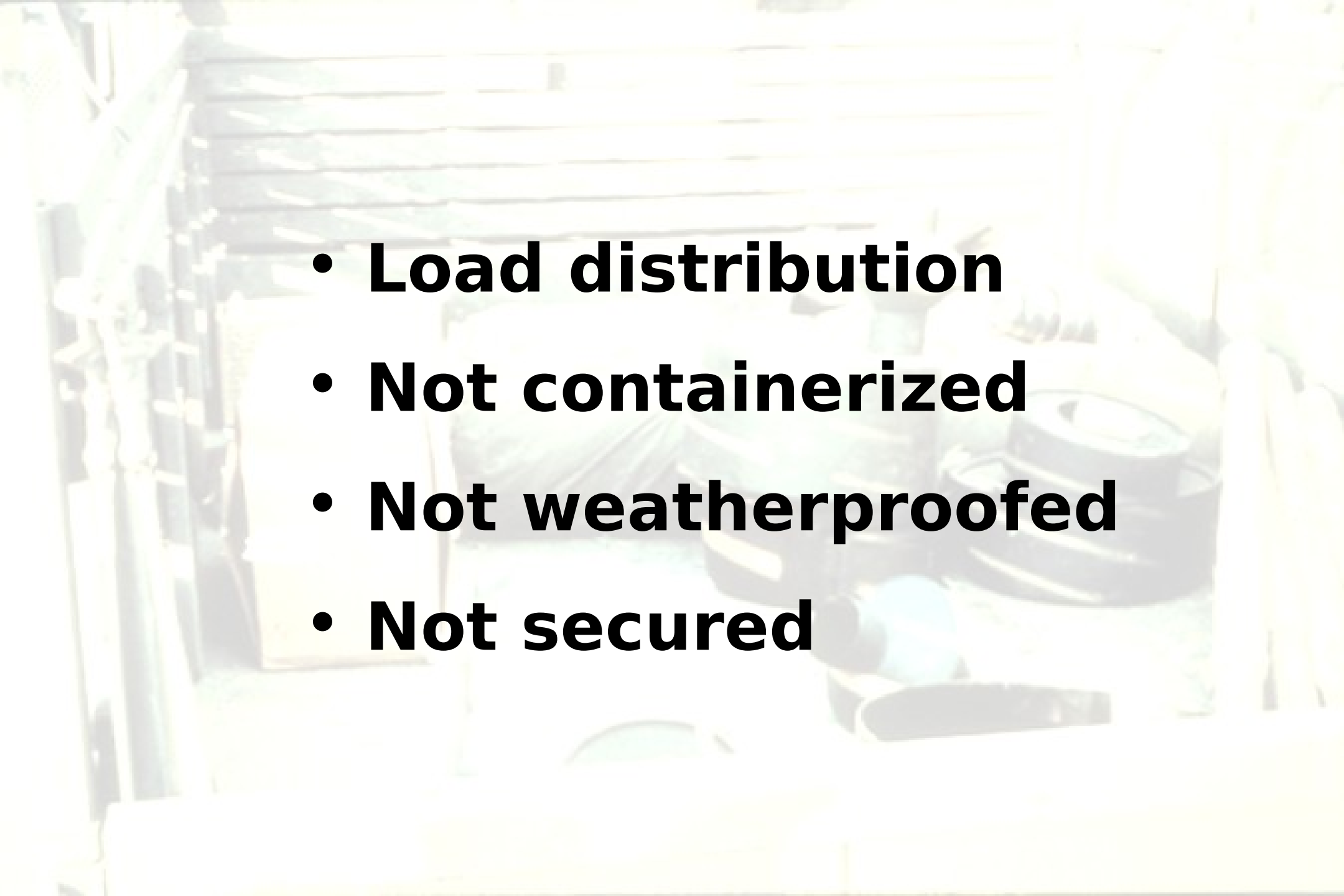
# Scope of Lesson

- **Load Plan Cycle**
  - **Planning the Load**
  - **Testing the Load**
  - **Inspecting the Load**
  - **Documenting the Load**







- 
- **Load distribution**
  - **Not containerized**
  - **Not weatherproofed**
  - **Not secured**





- 
- A yellow forklift is shown in the process of loading a flatbed trailer. The forklift is carrying a large roll of material, likely canvas or tarp, which is being placed onto the trailer. The trailer is already loaded with several other rolls of material. A person wearing a white shirt and a hard hat is standing on the ground next to the trailer, observing the process. The background shows a construction or industrial site with various equipment and materials.
- **Not weatherproofed**
  - **Canvas/tarp not secured**





- 
- **Metal-to-metal contact**
  - **Improper storage of HAZMAT**



- 
- **Not secured**
  - **May cause injury to personnel**
  - **May cause damage to windshield**

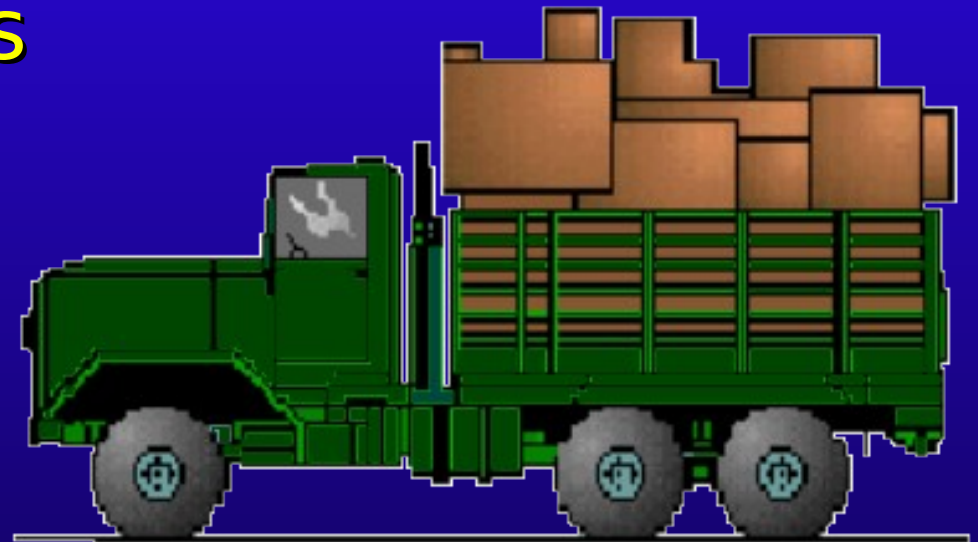
# Planning the Load

# Planning the Load

- Planning for packing & loading unit equipment is an important deployment preparation activity
  - Involves identifying actual space, weight, packaging material & external transport requirements
  - Proper planning saves valuable time when ordered to deploy

# Cube

- To determine how much space is needed, planners must first determine how much cargo needs to be moved
- The primary factor is cubic feet of space required for cargo shipments





# Cube (Cont)

- Determine Volume in cubic feet
  - Step 1: Take measurements of the length, width and height in inches
  - Step 2: Multiply length x width x height
  - Step 3: Divide the answer by 1728 to get volume in cubic feet (1728 inches in a cubic foot)

# Cube (Cont)

- A - Add cubic feet measurements of all cargo together to get the total cubic feet requirement
- B - Add cubic feet measurements of all cargo vehicles to get the total cubic feet of cargo carrying space available
- Subtract B from A to determine external cargo lift assets required, if any
- IT IS NEVER THAT SIMPLE!!!!!!!

## Cube (Cont)

- We do add cubic foot measurements of all cargo to get total cubic foot requirement
- Not all equipment comes in a rectangular shaped box
- Odd sized and heavy items require other considerations
- Maximize use of available space
- Usually will cube out before weigh out

# Weight

- Weight of most military cargo is marked on the package. Unmarked cargo must be weighed before loading
- Total shipment weight should equal the sum of the individual cargo weights
- Weigh loaded vehicle and record on AUEL
- Dense cargo can cause a vehicle's weight limit to be reached before the cargo space is filled

# Vehicle Data Plate

- Axle weight capacity information is located on the vehicle data plate
- 3 different loading weights:  
Empty, cross country and highway vehicle weight  
Maximum loaded vehicle weight should always be the cross country weight

# Vehicle Data Plate (Cont)

- Never exceed weight capacity of vehicle indicated on vehicle data plate

**WEIGHT & DIMENSION DATA**

CG WITH XXXXXX LB PAYLOAD COMPLETELY FILLING BODY

REDUCIBLE TO : XXXXX

SHIPPING CUBAGE XXXXX

WEIGHT	EMPTY	CROSS CTRY	HIGH WAY
PAY LOAD	XXXXX	XXXXX	XXXXX
FRONT AXLE	XXXXX	XXXXX	XXXXX
INTER AXLE	XXXXX	XXXXX	XXXXX
REAR AXLE	XXXXX	XXXXX	XXXXX
TOTAL LB	XXXXX	XXXXX	XXXXX
MAX TOWED WEIGHT	XXXXX	XXXXX	XXXXX

ALL WEIGHTS LESS CREW

TRUCK, CARGO, 5 TON 6-6 M54 W  
FEDERAL STOCK NO. 2320-835-8335  
VEHICLE IDENT. NO.

MFG .BY

CONT. NO.

INSPECTED

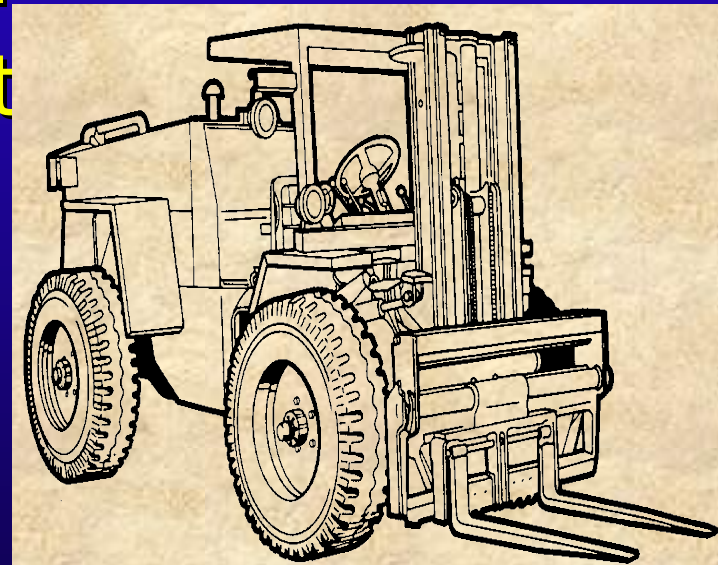
US PROPERTY

XXXXXXXX

- Always use cross country weight limits

# Material Handling Equipment

- Consider capabilities of available material handling equipment (MHE)
- Ensure MHE is staged along with required packing material prior to loading
- MHE capacity must be equal to or greater than the load
- Determine external MHE requirements (consider destination)







**MHE**

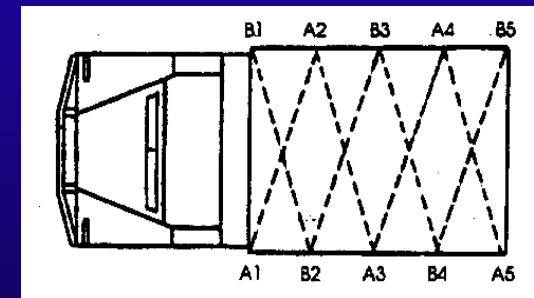
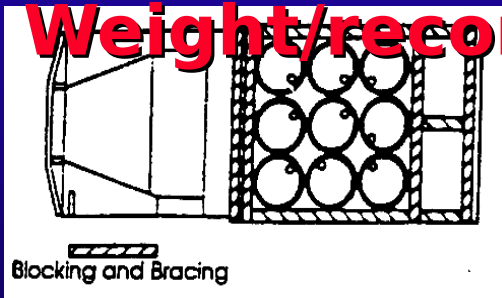
# Loading Considerations

- Consider likely deployment configuration for vehicles carrying secondary loads
- If deploying by rail, air or sea, then the secondary load cannot exceed reduction dimensions
- TB 55-46-1 provides base and reduced cargo body dimensions for vehicles

# Testing the Load

# STEP 6: Develop Vehicle Load Plans for Unit Equipment

- **Don't exceed payload capacity**
- **Document planned loads for organic vehicles and trailers carrying secondary loads (FORSCOM 285-R or DA 5748-R)**
- **Vehicles may have to be reduced according to mode of transportation and type of move**
- **Consider vehicle modifications (approved by SDDC TEA) and reflected in AUDEL/DEL or OEL/UDL**
- **Test planned loads (every year for AC, every two years for RC)**
- **Weight/record planned loads**



# Balancing Considerations

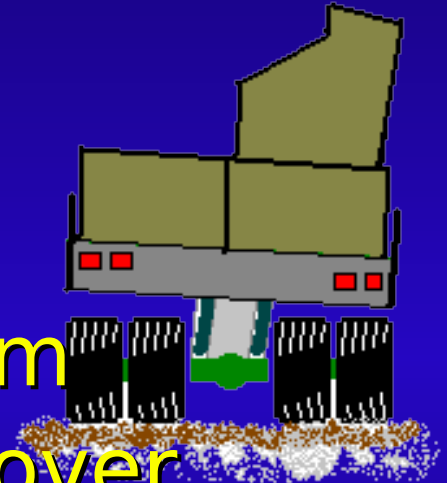
- Balancing weight is important

Unbalanced loads cause damage

- Rules of thumb on weight load heavy cargo on the bottom balance:

Distribute heavy items evenly over vehicle bed

Check vehicle data plate for maximum axle weights



Checked for maximum axle weight?

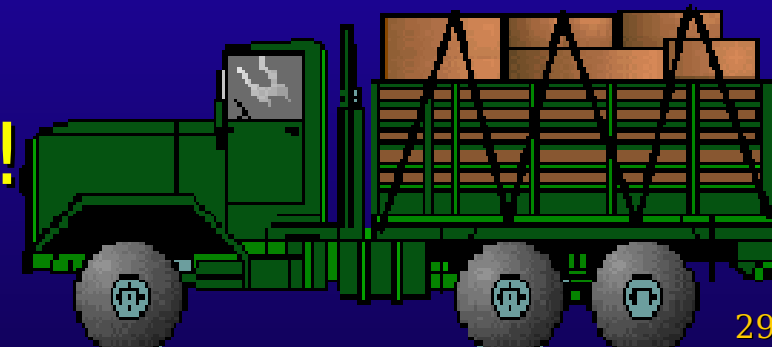


# Load Considerations

- Pack cargo so it doesn't shift (use B & B)
- Keep load as low as possible in vehicle
- Consider multi-stops when loading
- Load items of uniform size and shape (where possible) for easier tie-down
- Use boxes and containers to move smaller items

**LOAD SMART!!! LOAD SAFE!**

**Ref: FM 55-30, Para 10-5b**



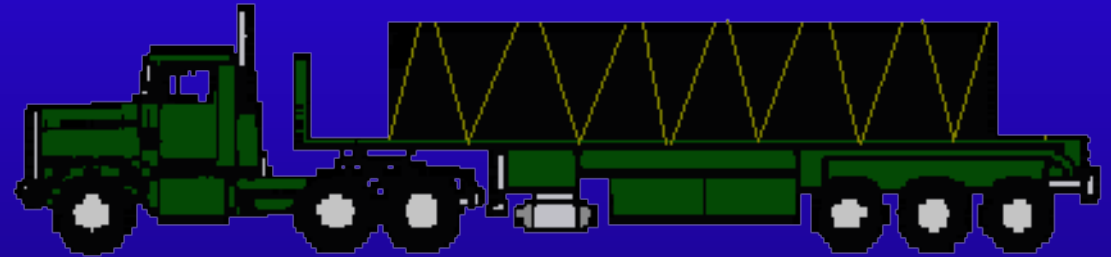


# Testing the Load - Loading Vehicles -

Select the right vehicle for the right job



Wrong



Right

**Ref: FM 55-30, Para  
10-5a**

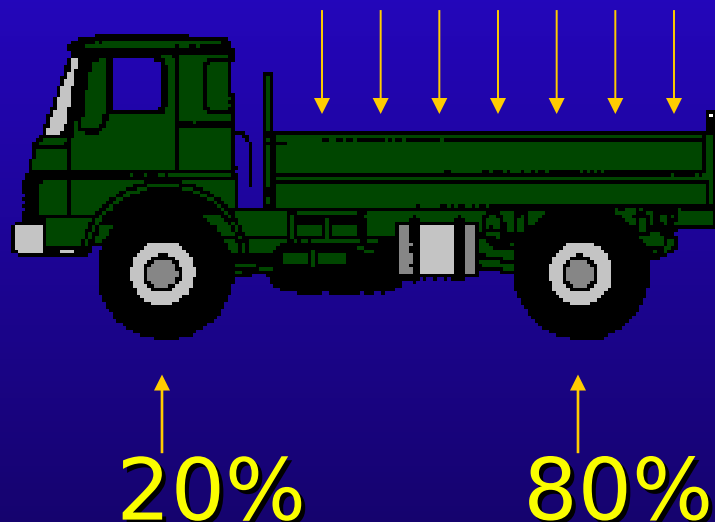
# Well balanced load? Right Vehicle for the Right Job



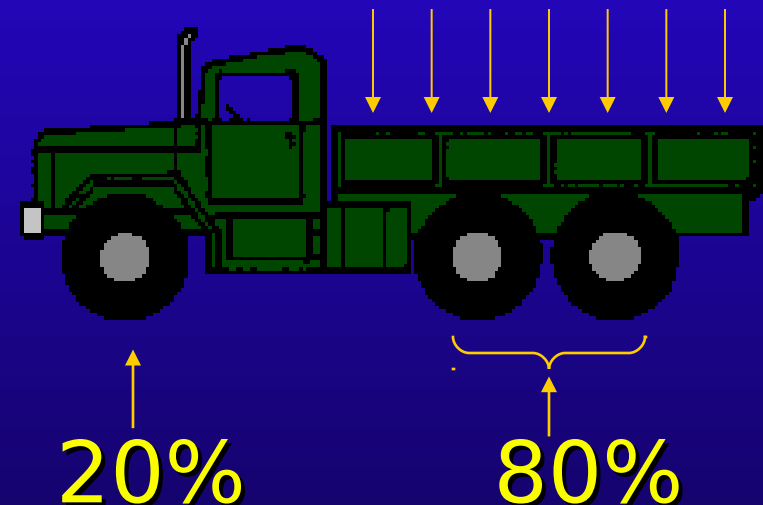
# Load Placement in Trucks & Semitrailers (Cont)

- Tires, axles & frame are designed to carry a load distributed as shown

COE Truck

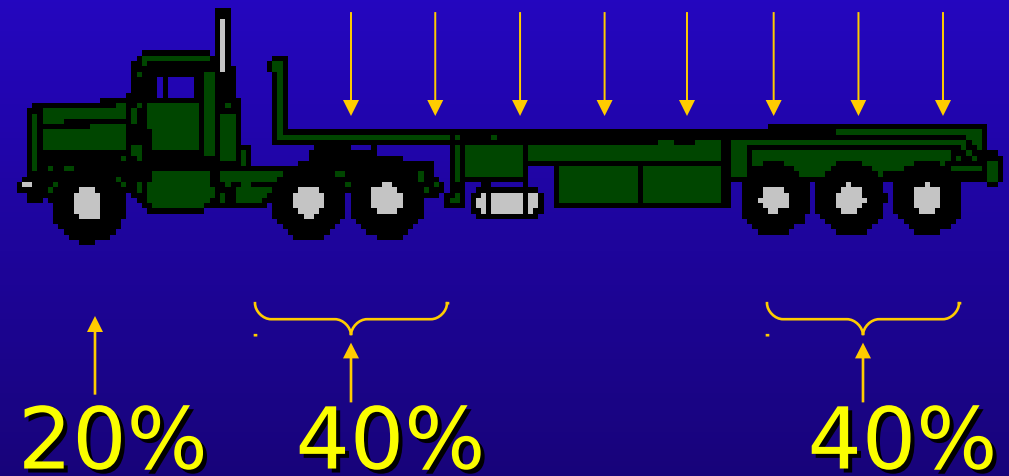
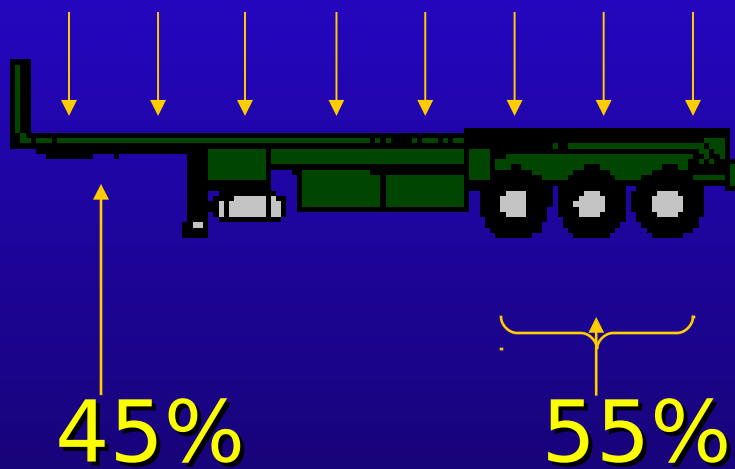


Conventional Truck

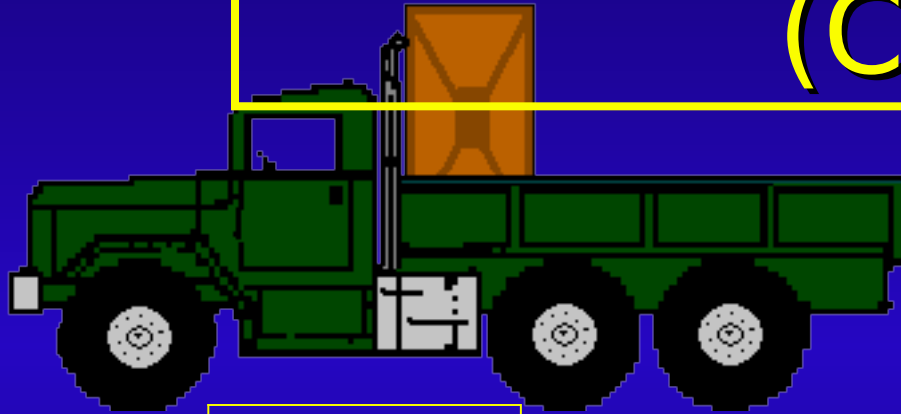


# Load Placement in Trucks & Semitrailers (Cont)

- Distribute trailer loads equally between the rear tires & the fifth wheel to ensure load transfers to the tractor

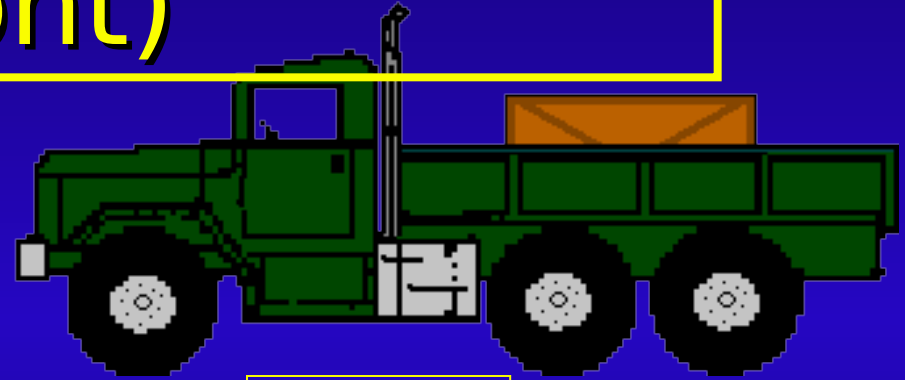


# Load Placement in Trucks & Semitrailers (Cont)



Wrong

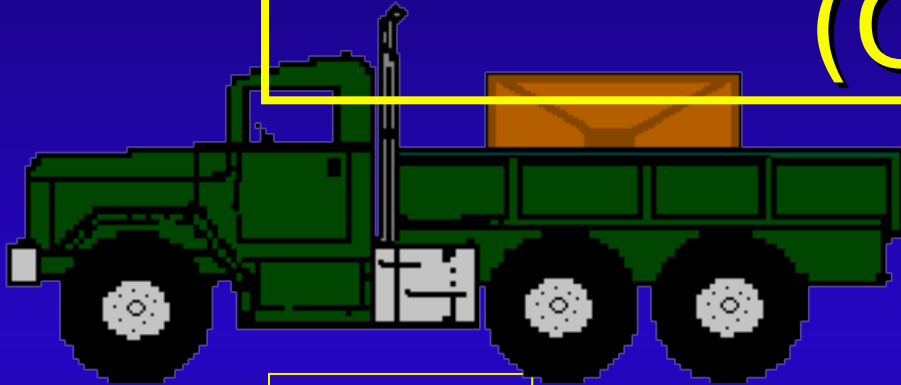
Load can bend the frame,  
overload front tires and  
make steering harder



Right

Place heavy part of  
load  
near rear axle for  
proper  
tire loading and to keep  
frame from bending

# Load Placement in Trucks & Semitrailers (Cont)



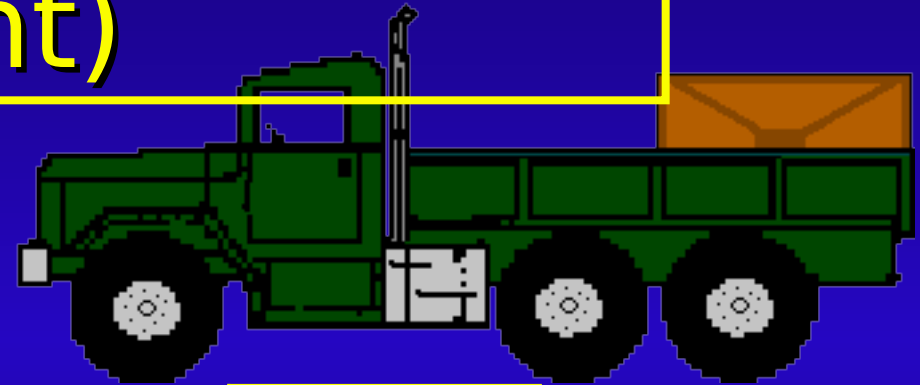
Set a **Right** concentrated

load

just ahead of the rear  
axle

with the longest side  
on

the floor



**Wrong**

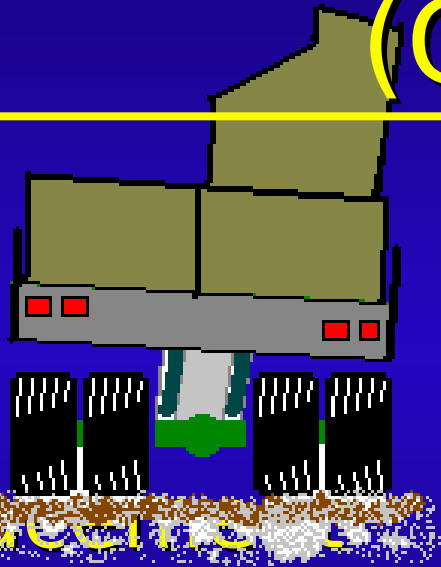
Load can bend the  
frame, overload rear  
tires and make

steering

almost impossible

# Load Placement in Trucks & Semitrailers (Cont)

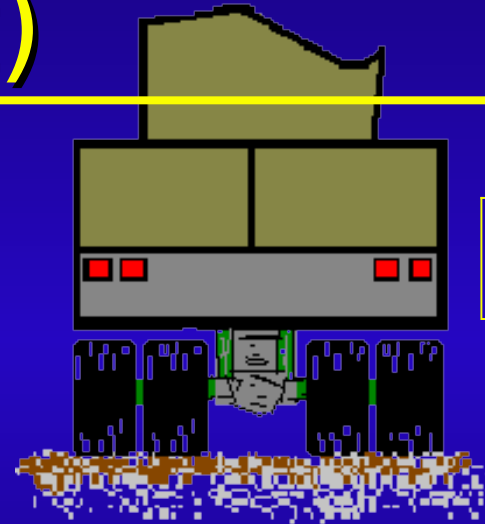
**WRONG**



This placement  
overloads  
one spring and set of  
tires,

brakes could lock on the  
light side causing skids

**RIGHT**



Nothing is overloaded,  
frame will not twist  
and  
stress suspension

# Containers

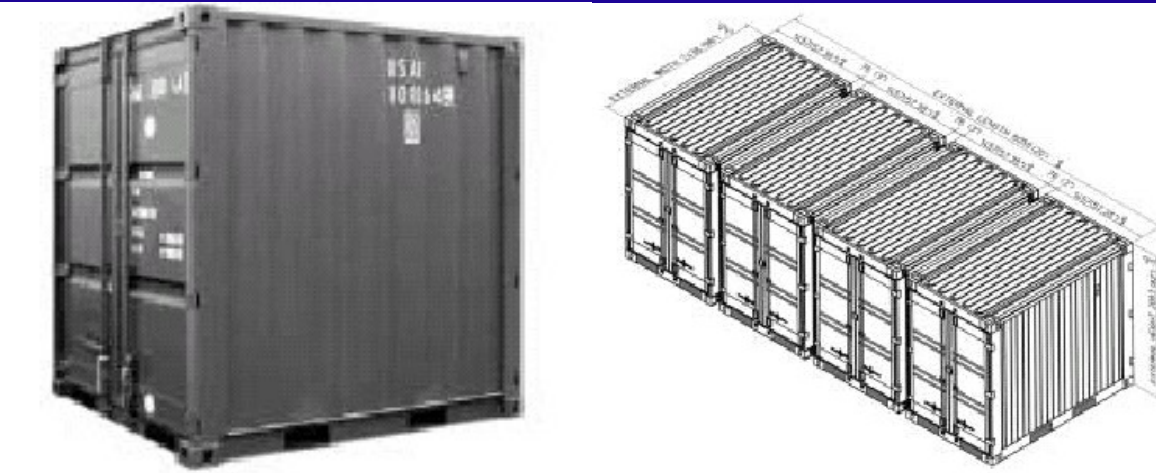
- Containers provide:
  - Security (seal protection)
  - Weather Protection
  - Less damage to the cargo (if loaded properly)
  - Ease in handling
  - Concentration of unit supplies/equipment



# AVAILABLE CONTAINERS

Requested through the ITO

QUADCON



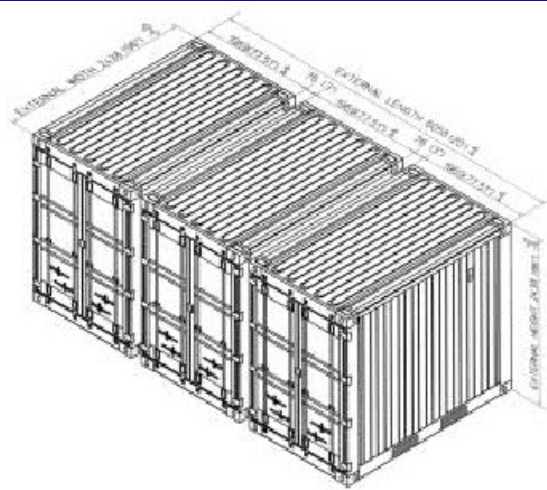
Coupling system



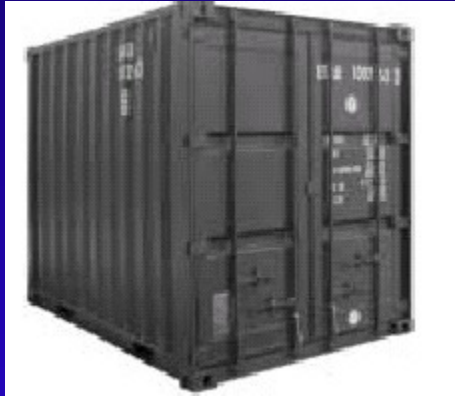
# AVAILABLE CONTAINERS (Cont)

Requested through the ITO

## TRICON



# AVAILABLE CONTAINERS (Cont)



CONEX



MILVAN

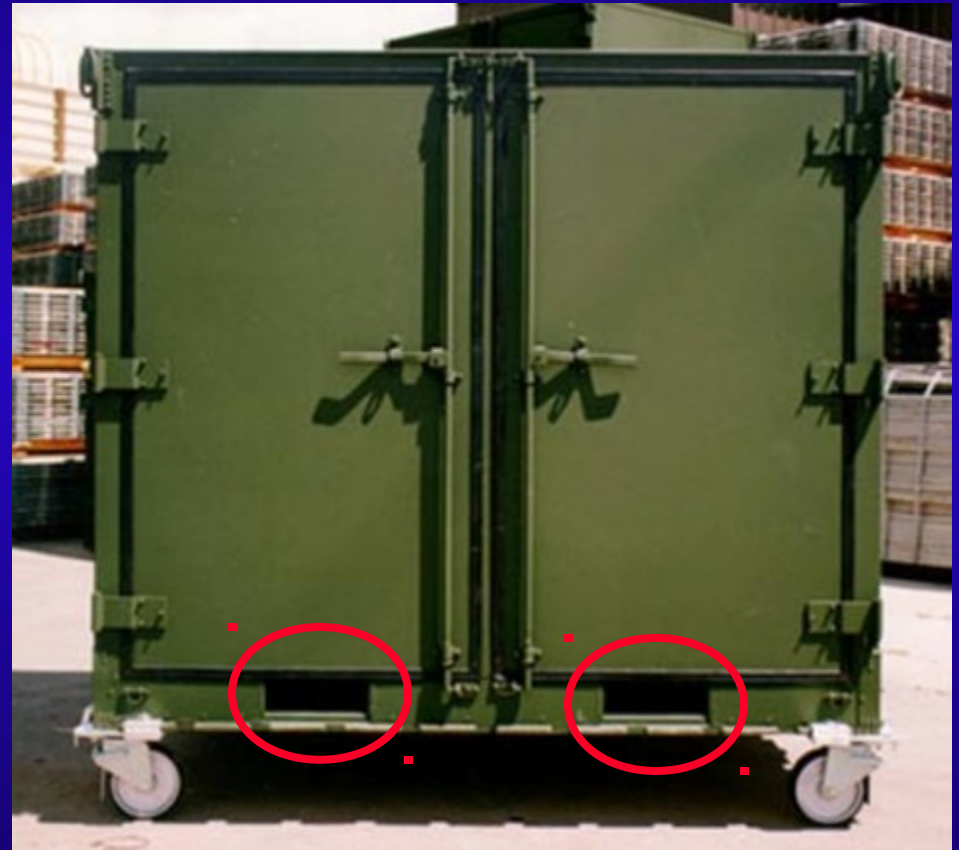
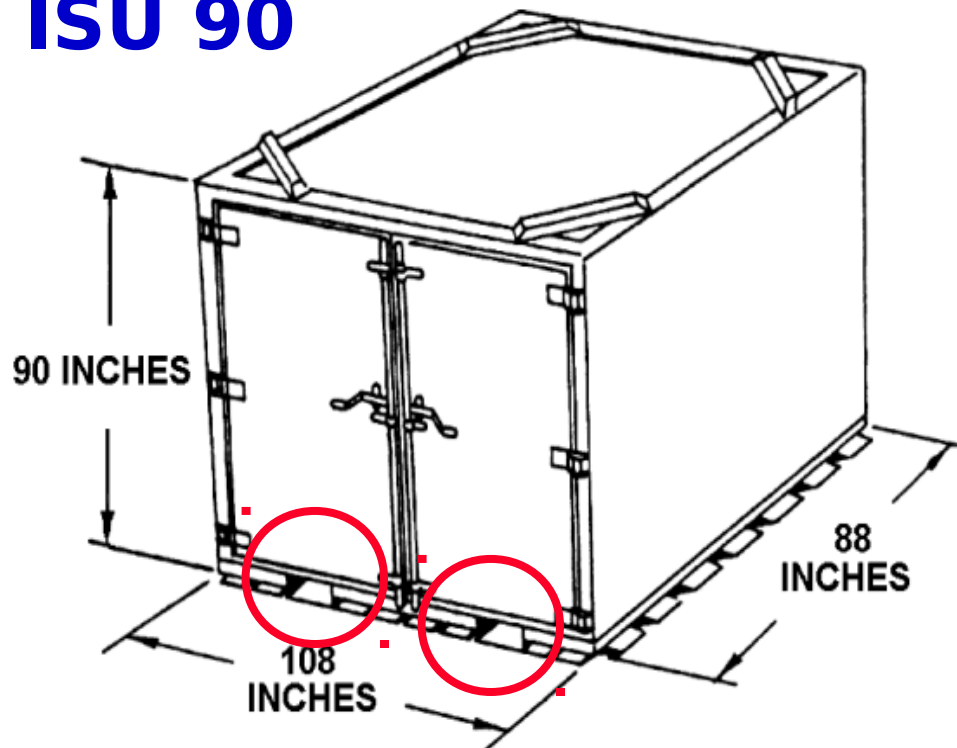
20-Foot Shipping Container



40-Foot Shipping Container

# ISU

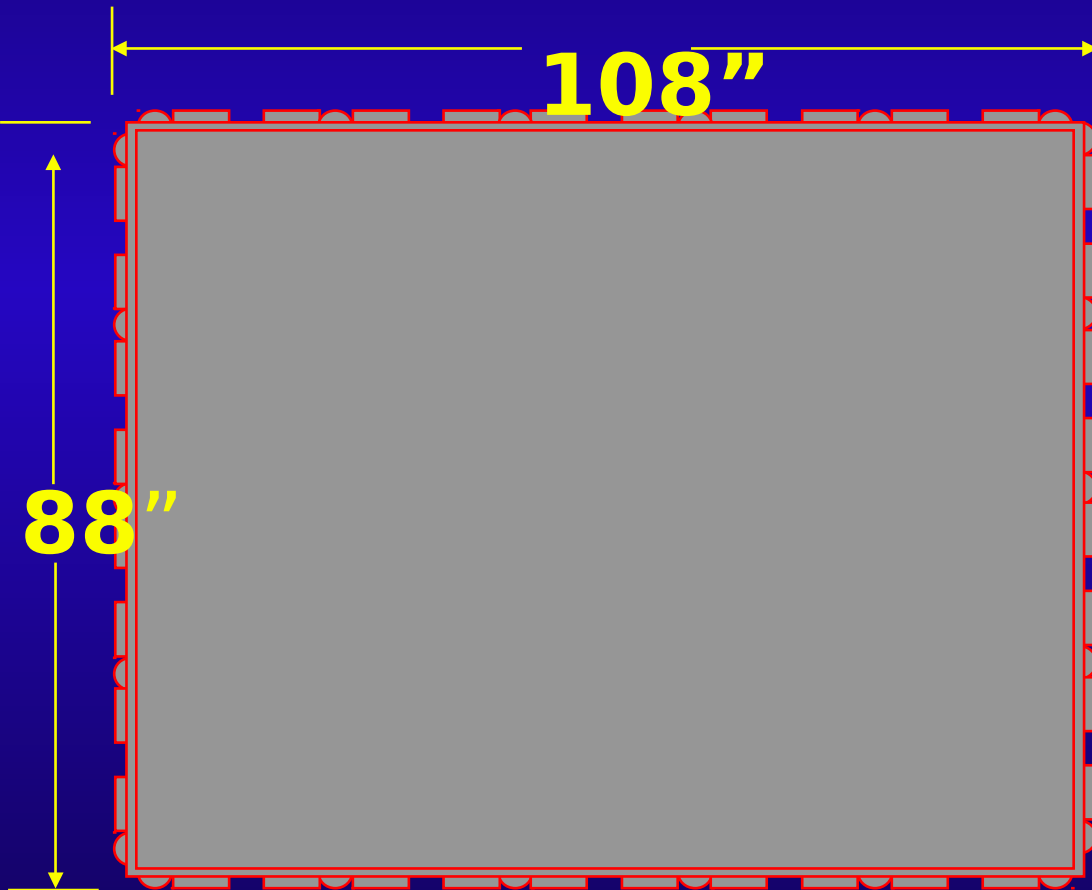
## ISU 90



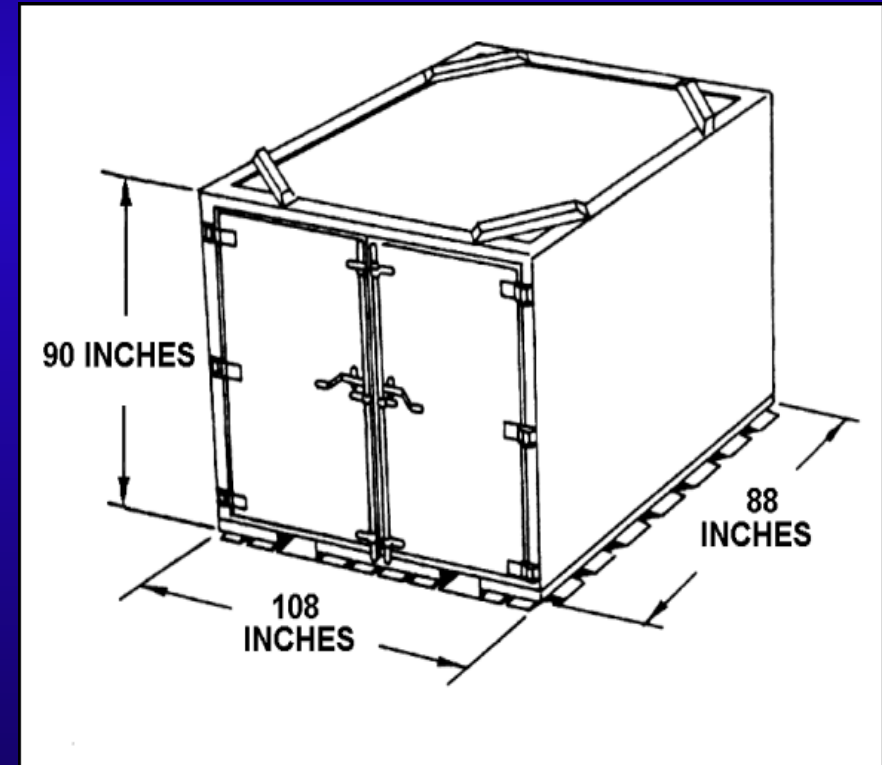


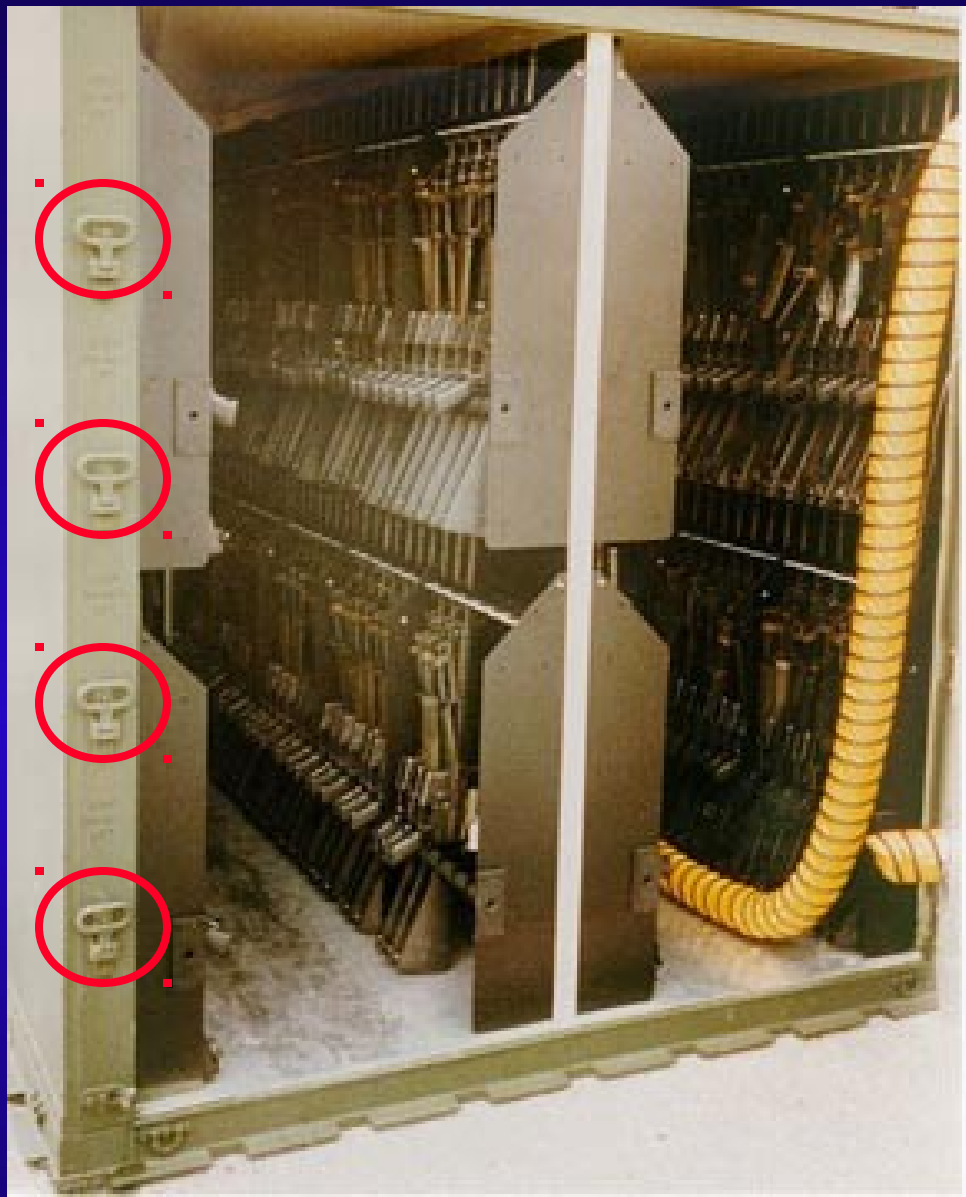
# ISU (Cont)

## 463L PALLET



## ISU 90





**Weapons Rack**  
(300x M16, 60 x 9mm pistols)



**Laundry Unit**  
(4 washers/dryers)



ISU 60

# Container Inspection -

- Inspect Container Exterior Prior to Stuffing (exterior)

- Identification markings must be readable
- Welds must not be broken, cracked or missing
- Top/bottom rails should not be damaged
- Door frame must not be cut, broken, or distorted
- Locking bar guides must be serviceable
- Roof panels should not be corroded, dented or punctured



# Container Inspection -

- Inspect Container Interior to Stuffing (interior)

- Ensure no tears or holes in sides and roof and

- that floor boards are serviceable

- Corner posts should not be dented, fractured, or torn

- Ensure no rust, mold or mildew and check for

- general cleanliness

- There may be an added cost for exchanging

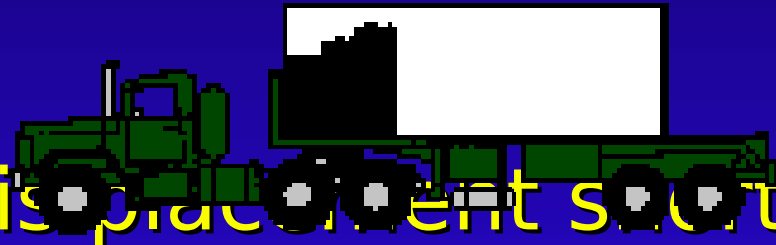
# Container Considerations

- Consider how you will receive containers  
If you load a container that is on a chassis, you will need a ramp or MHE for loading.  
If you load a container without a chassis, you will need MHE to place the container on a chassis or truck/trailer bed once loading is completed.
- Consider customs inspection requirements (inspect before the container is loaded)
- Consider BBPCT requirements

# Stuffing Containers

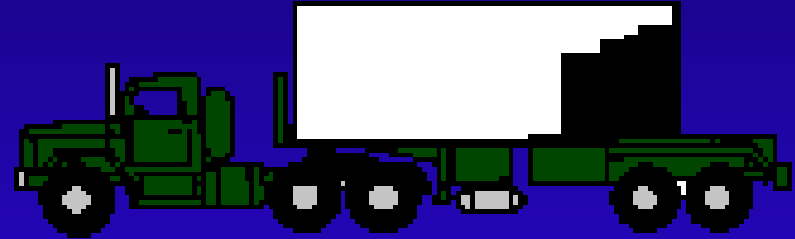
- Stuffing Containers
  - Distribute weight evenly over the container floor
  - Heavy cargo on bottom, lighter cargo on top
  - Fill space between cargo and containers sides with blocking and bracing
  - Keep CB as near as possible to the center
  - Do not overload the container

# Load Placement in Containers



This placement shortens tire life & bends the trucks rear-axle housing; applying trailer brakes may lock the wheels & cause flat spots &

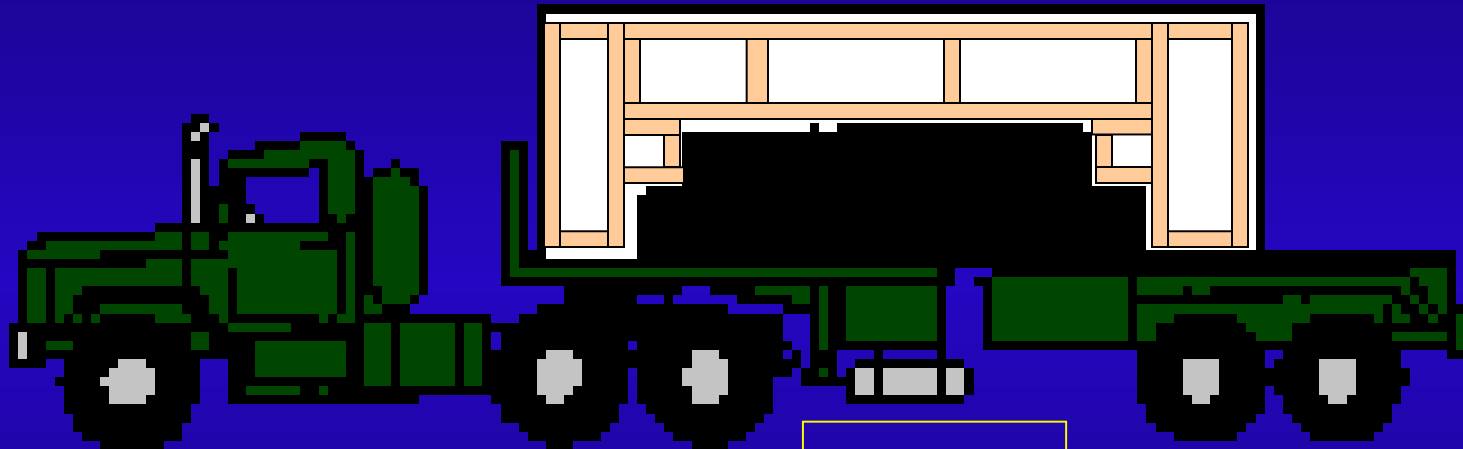
Wrong



This placement overloads the trailer rear wheels so that brakes will not function properly & rubber scuffs away

Wrong

# Load Placement in Containers (Cont)



Right

This container is loaded with the load spread low on the floor. (What is missing from picture?)

# Record Weight

- Record weight & compare to the AUEL  
Verify the actual weight & dimensions of each piece of cargo, and vehicle with cargo
  - Update AUEL if discrepancies are found
- You must physically weigh each vehicle after it is loaded

**NEVER EXCEED VEHICLE'S CROSS  
COUNTRY WEIGHT LIMITS**

# Lessons Learned

- Tractor trailer that overloaded a bridge



# SUMMARY

- Planning the Load
  - How to calculate the cubic feet required for cargo shipments, and how to determine if external cargo lift assets are required
  - Vehicle weight limitations
- Testing the Load
  - Loading consideration for vehicles
  - Use of containers, including loading considerations





On  
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# On Learnin g

Question 1: What is the size in cubic feet of a packaged motor with the measurements of 48 in. wide, 24 in. high, and 72 in. long?  
Answer 1: 48 cubic feet.

$$(48 \times 24 [1152] \times 72 [82,944] / 1728 = 48 \text{ cuft})$$



# On Learning

Question 2: When developing cargo load plans for vehicles, what is the vehicle weight category that you must not exceed?

Answer 2: You never exceed the vehicle's cross country weight.

# Inspecting the Load

# Preparing Vehicles For Shipment

- Thoroughly clean vehicles (Customs)
- Ensure vehicles are mechanically sound (free of leaks, drips and other defects)
- Fill vehicle fuel tanks to a maximum of 3/4 full
- Do not fill the fuel tanks of trailer mounted equipment (such as generators) to more than 1/2 a tank
- Ensure tiedown/lifting devices are serviceable

# Preparing Vehicles For Shipment (Cont)

- Secure ignition keys to steering wheel with wire
- Ensure fire extinguishers are in approved brackets
- Do not lock driver compartments
- Consolidate radios and crew-served weapons in separate secured containers
- Basic Issue Items (jack, tools) stored in tool box (locked/banded)

# Preparing Vehicles For Shipment

- Reduction  
(Cont)

- Operational configuration for moving as convoy  
(reduction will occur in POE staging area if required)
- When vehicles are shipped
  - Reduce vehicle length and width by folding in side-mounted mirrors
  - Remove antennas
  - Keep windshields and cab canvas in the 'up' position
  - Leave exhaust stacks in place
  - Reduce further only if specified in the Movement Order

# Securing Cargo in Vehicles and Containers



# Packing Materials

- Types of packing materials:
  - Bubble wrap
  - Foam packing
  - Corrugated cardboard
  - Desiccant to dehumidify
  - Pneumatic & mechanical holding devices
- Materials also needed to close and secure boxes/cartons

# Containers

- Rules for loading containers:
  - Block & brace the cargo - bottom, sides & front (stay 6 inches away from the door)
  - Distribute the weight evenly - heavy items on the bottom of the container - never overload
  - Package liquid on dunnage
  - Group cargo according to use at destination for ease of handling when off-loading

# Containers (Cont)

**SIX INCH GAP  
BEHIND DOOR**

**BLOCKING FOR EMPTY  
SPACE ABOVE CARGO**

**USE DIVIDER SHEET BETWEEN  
DIFFERENT SIZE / TYPE  
CARGO**

**LIGHTER  
CARGO  
ON TOP**

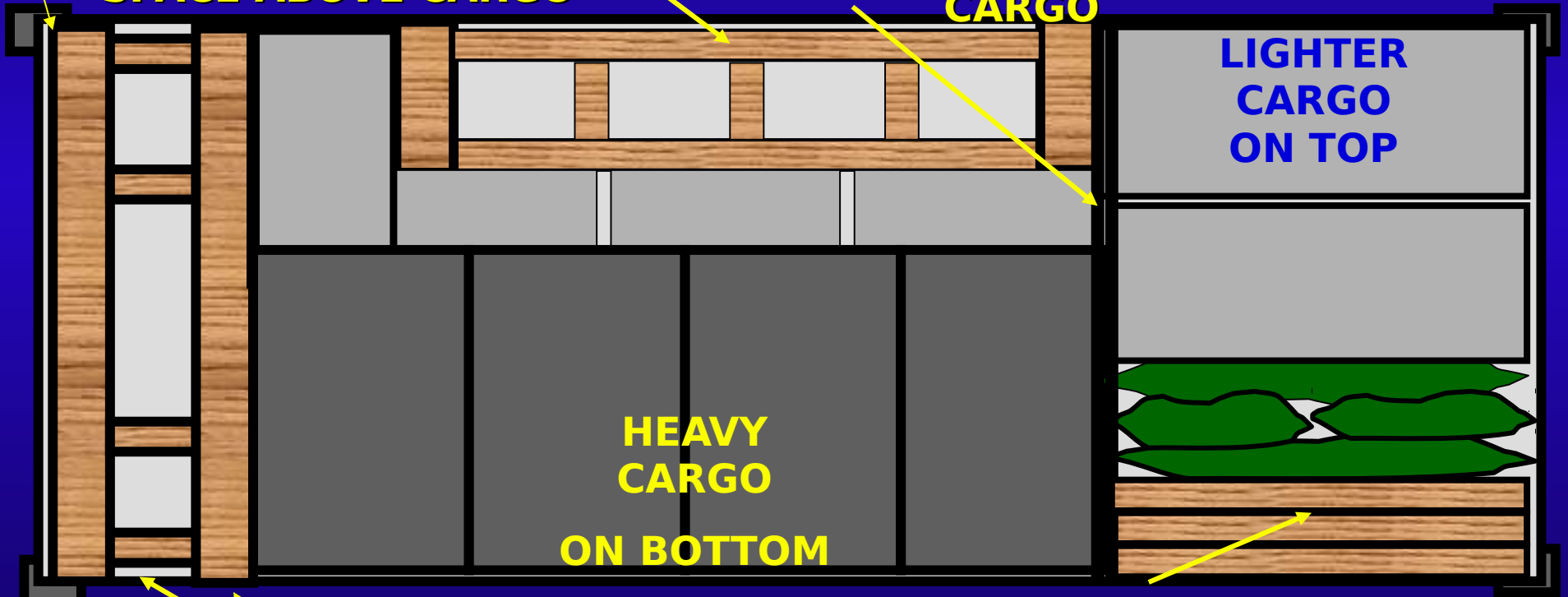
**HEAVY  
CARGO  
ON BOTTOM**

**BLOCKING &  
BRACING**

**DUNNAGE LAYERS OR PALLETS  
FOR POSSIBLE DRAINAGE**

**D  
O  
O  
R**

**F  
R  
O  
N  
T**

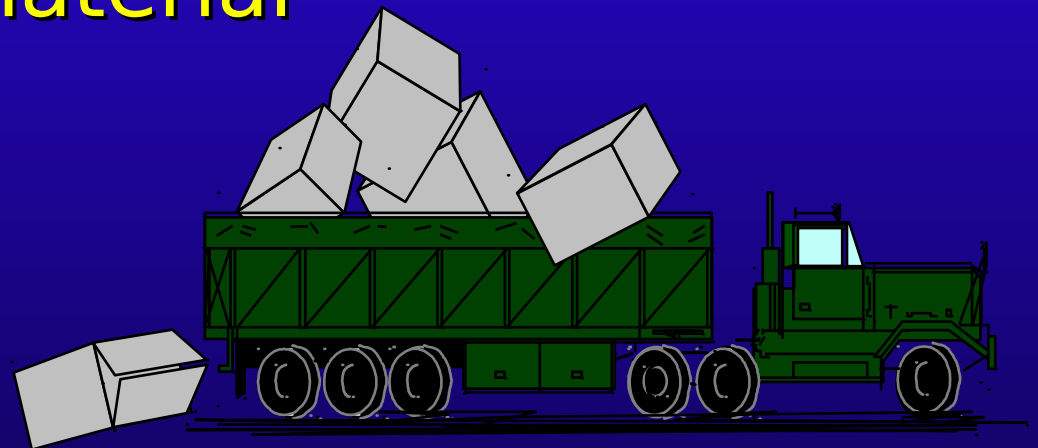


# Blocking, Bracing, Packing, Crating, Tiedown (BBPCT)

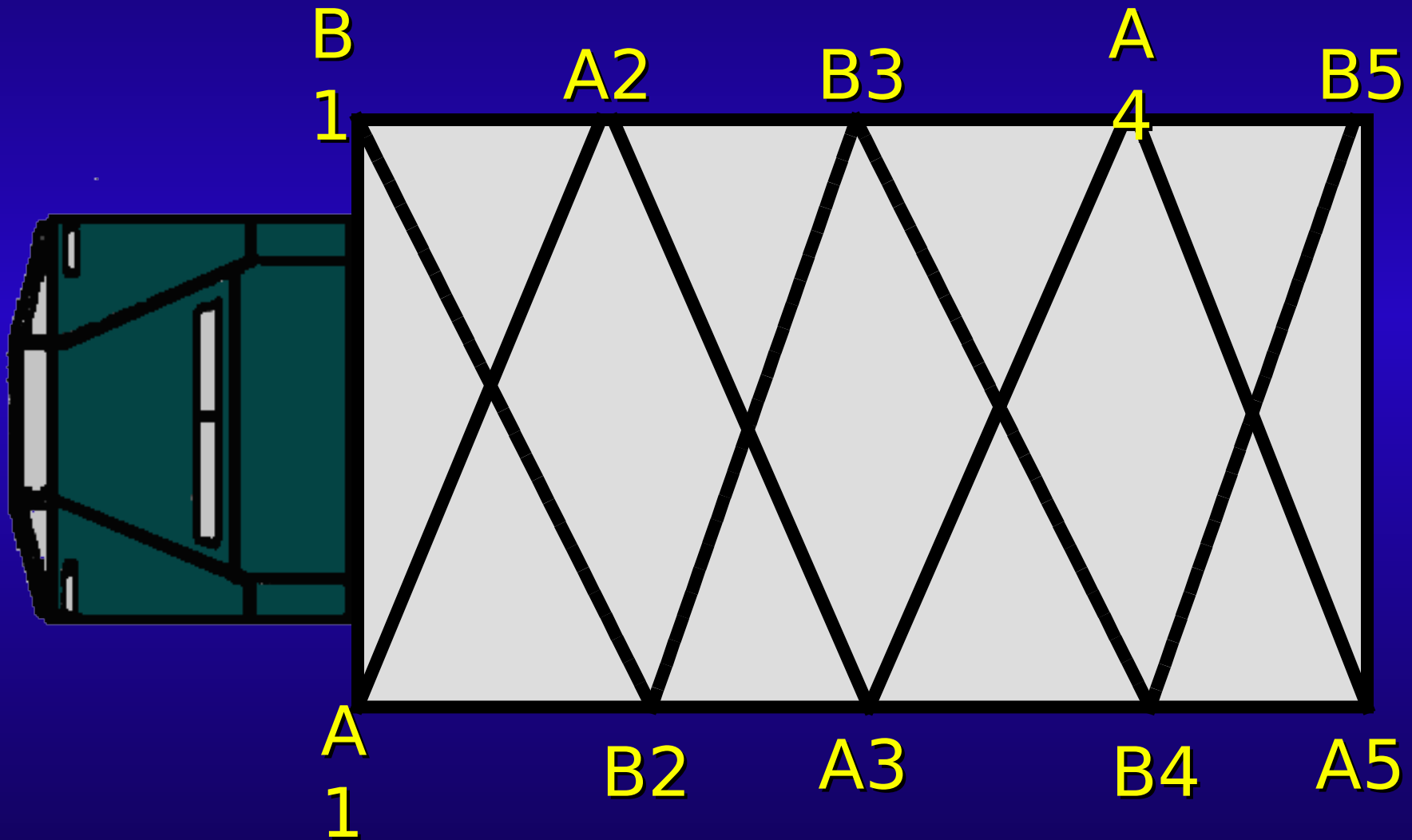
- Units are responsible for securing their cargo
- Lashing should be:

1/2" manila rope, wire  
rope or banding material

- Secure rope to  
vehicle via  
hooks/rings on  
the vehicle's  
sides



# Lashing



# Blocking & Bracing

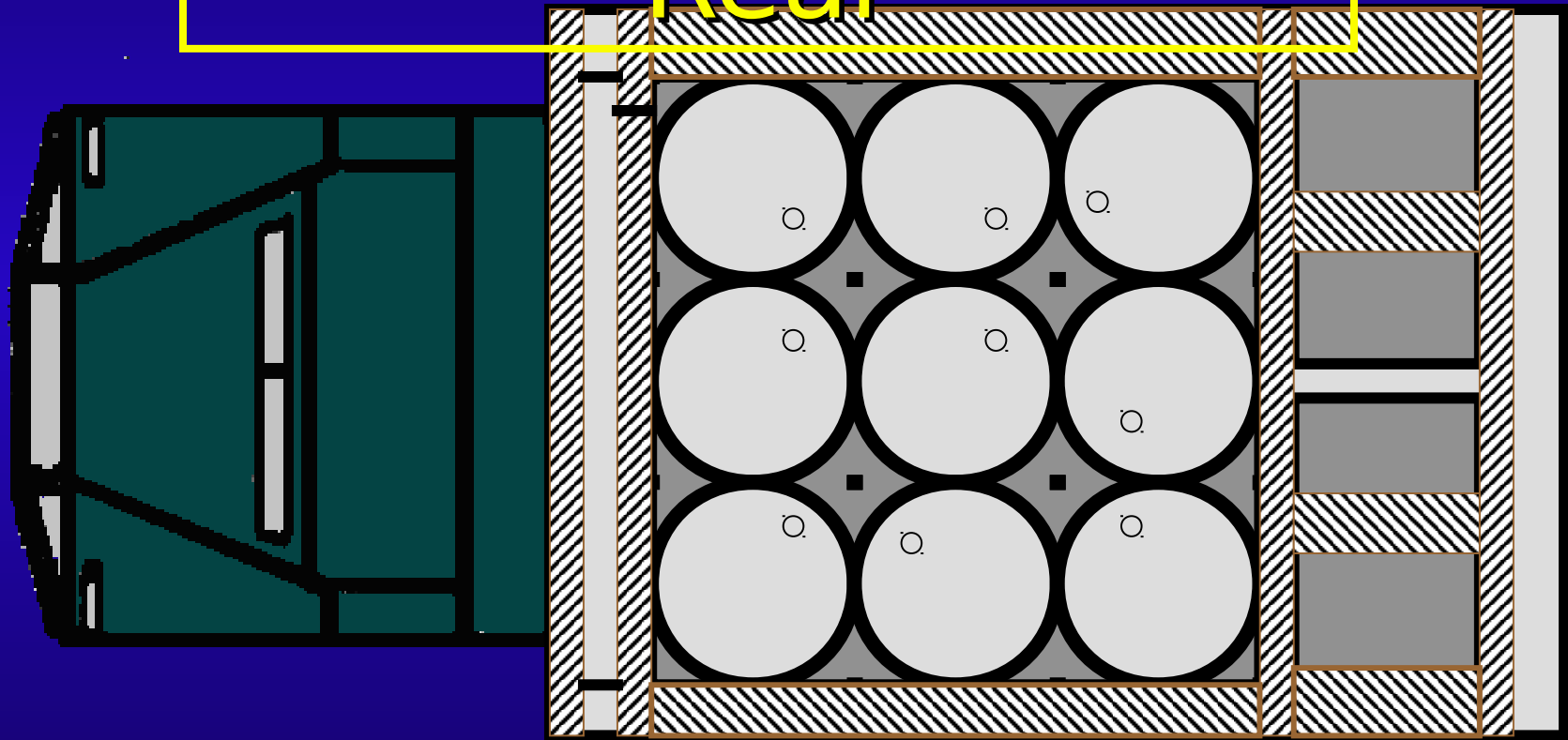
- Your unit is responsible for the blocking & bracing of unit equipment and containers

Use crib blocking whenever possible

Block cargo on all sides: front, back, sides & door area

Ensure there is no metal-to-metal contact (Use plywood, wood or cardboard)

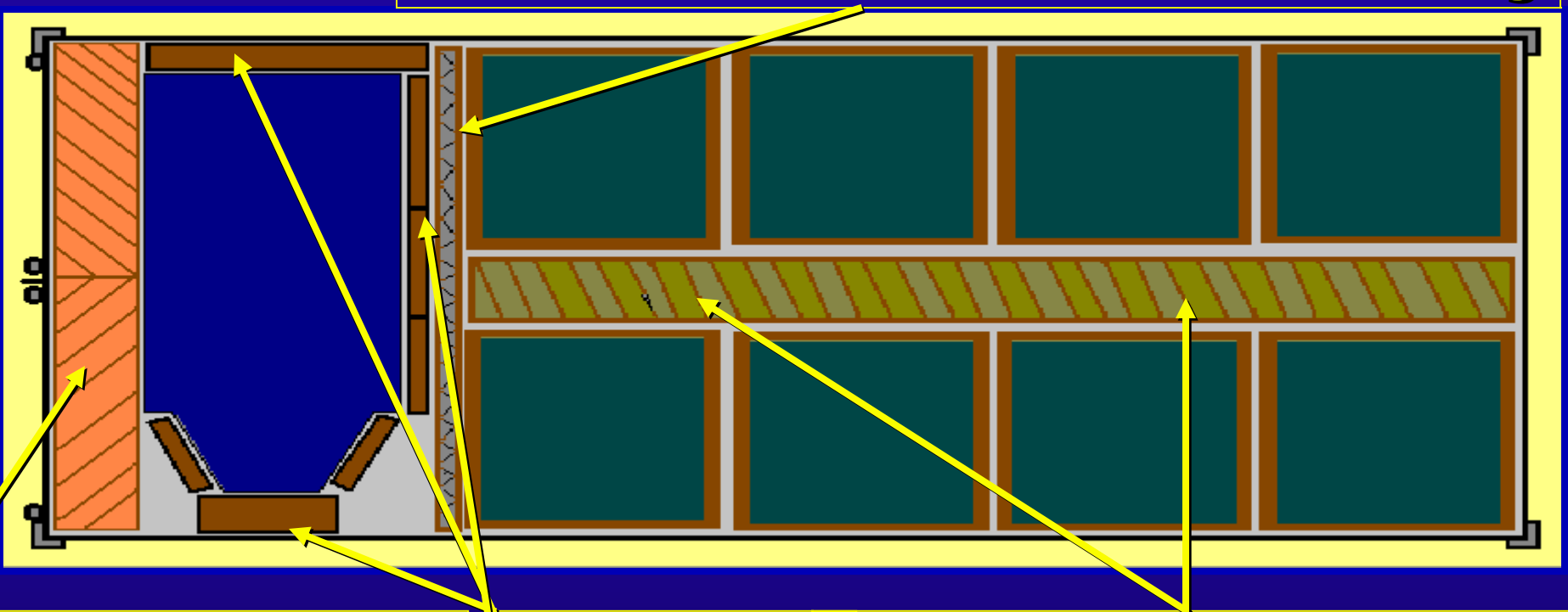
# Blocking & Bracing a 2-1/2 Ton Truck Rear



- Denotes Blocking & Bracing

# Blocking & Bracing a Container

False wall / side to side bracing



6" B & B at door

Blocking B & B between pallets



# Loading Containers

- Once a container is blocked and braced:
  - Close and seal doors carefully (use serial numbered seals if provided)
  - Weigh the container and check its documentation
  - Place one copy of its packing list on the inside of the container door and one on the outside (in clear plastic sleeve for weatherproofing)
  - If carrying HAZMAT; load, label, and placard as appropriate

# Cargo Protection

- Protecting cargo from weather & elements is a unit responsibility

Place dunnage over corners to protect canvas

Cover open topped vehicles with canvas before lashing

Protect crew-served weapons from elements with a coating of grease

# Marking of Vehicles

- Proper marking of unit vehicles and equipment:
  - FORSCOM/ARNG Reg 55-1, requires marking on front and back
  - Use 2" lettering placing UIC and SUN on bumpers
  - Suggested to mark all Secondary loads that may be moved separately
- See App G to FORSCOM/ARNG Reg 55-1

# Inspecting the Load

- Once loading is completed, inspect the vehicle to ensure that:

Its overall dimensions (length, width and height) are in compliance with the applicable reduction policy

Its overall weight is in compliance with stated vehicle limitations









# SUMMARY

- Inspecting the Load
  - Preparing vehicles for shipment
  - Securing cargo loads in vehicles and containers (lashing, and blocking and bracing)
  - Cargo protection (weatherproofing)
  - Vehicle weighing and marking



On  
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# On Learnin g

Question 1: What type of material should be used for lashing?

Answer 1: 1/2" manila rope, wire rope or banding material.



# On Learnin

Question 2: How much space must be maintained between the cargo and the container door?

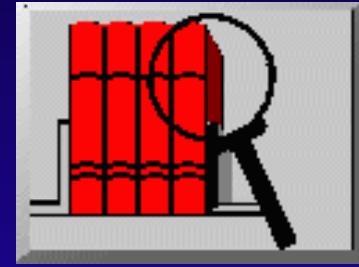
Answer 2: You must keep 6 inches of space between the cargo and the door.

# Special Cargo Considerations

# Types of Special Cargo

- Hazardous cargo (discussed in another lesson)
- Other Categories
  - Sensitive items
    - Classified material
      - Pilferable items

# Sensitive Items



- Reference is FM 4-01.011, Appendix D
- Sensitive cargo is cargo that could threaten public safety if compromised (eg. weapons)
- Sensitive cargo must be secured and identified to port personnel so they can provide appropriate security
- Remove crew-served weapons from vehicles. Place them in containers that are sealed and secured with an approved locking device
- Provide guards or escorts when shipping sensitive material by rail

# Sensitive Items

(Cont.)

- Rules for sensitive cargo:

Packing material must be strong and durable enough to provide security protection in transit. Containers, vehicles or compartments must be secured with appropriate locking device. Also place a serial-numbered seal on the door (serial number entered on unit packing list).

Sensitive items must be identified in the commodity code of the unit's AUDEL/DEL (OEL/UDL).

The outside of container/vehicle/compartments must NOT indicate in any way that it contains

# Classified Cargo

- Classified cargo is cargo that requires protection in the interest of national security (eg. codes)
- Classified material must be enclosed in two sealed containers: inner and outer container (comply with AR 380-5)
- Must NOT be identified as classified on the outer container
- Packing material must be strong and durable enough to provide security protection in transit, to keep items from breaking out of the container and to help detect any tampering with the container - wrapping must conceal classified characteristics
- Not to be stored in any detachable storage compartment, such as vehicle trailers

# Classified Cargo (Cont)

- When crossing international borders, arrangements must be made to ensure that customs, border or other inspectors (either US or foreign) do not open the classified material
- Containers, vehicles or compartments containing classified material must be secured with an appropriate locking device. Also place a serial-numbered seal on the door (serial number entered on packing list)
- Unit authorizing the transportation of classified equipment must notify their ITO/MCT and an appropriate carrier in advance
- Shipping classified material by rail may require the commander to provide guards or escorts
- When traveling by motor convoy, escorts must maintain constant surveillance of classified material (stay within escort's personal possession/observation at all times)



# DD Form 1907

- DD Form 1907

<b>SIGNATURE AND TALLY RECORD</b> (See DoD 4500.9-R for guidance) <i>(Use of equivalent carrier-furnished signature and tally record is acceptable.)</i>		Form Approved OMB No. 0702-0027 Expires Oct 31, 2001
The public reporting burden for this collection of information is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Service, Directorate for Information Operations and Reports (0702-0027), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Responses should be given that not-withstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.		
<b>PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS. RETURN COMPLETED FORM AS DIRECTED IN THE DISTRIBUTION INSTRUCTIONS BELOW.</b>		
<b>DISTRIBUTION INSTRUCTIONS</b> (1) The SHIPPER will print two copies, retain one copy and give one to the Origin Carrier. (2) The ORIGIN CARRIER will deliver one copy with original signatures to the Destination Carrier. (3) The DESTINATION CARRIER will attach one copy (reflecting all original signatures) and Standard Form 1113, Public Voucher for Transportation Charges, to the original Government Bill of Lading and forward for payment. Reproduced completed copy of DD Form 1907 will be delivered to the Consignee and one will be retained. (4) The CONSIGNEE will ensure Destination Carrier surrenders a reproduced copy of completed form with all signatures.		
<b>SECTION I - TO BE COMPLETED BY THE SHIPPER</b>		
1a. SHIPPER NAME	b. ORIGIN	
2. PROTECTIVE SERVICE REQUESTED	3. GBL OR CBL NUMBER	
4a. CONSIGNEE NAME	b. DESTINATION	
5. PERMIT NUMBER (if any)	6. TRANSPORTATION CONTROL NUMBER	
7. ROUTING	8. WEIGHT	9. CUBE
10. SPECIAL INSTRUCTIONS	11. DATE SHIPMENT TENDERED TO CARRIER (YYYYMMDD)	
12. NAME OF CARRIER	13. NUMBER OF PIECES	

[illegible]

DD FORM 1907, MAY 2000

PREVIOUS EDITION IS OBSOLETE.

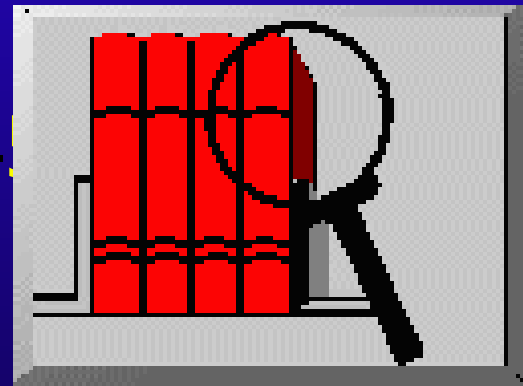
# Pilferable Items

- Pilferable items are items of value to individuals that can be readily removed and concealed (radios, binoculars compasses, etc.)
  - Consider removing pilferable items from vehicles and packing them together in a separate container (also facilitates movement tracking)



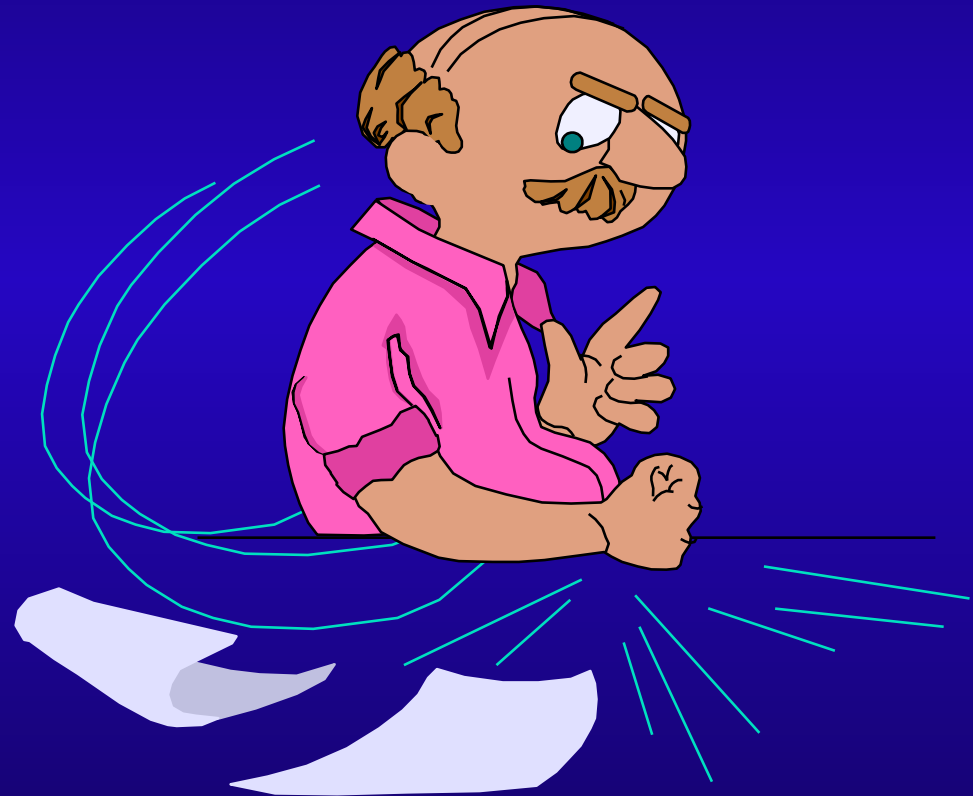
# Security

- Be prepared for acts of sabotage, espionage and terrorism in both CONUS and OCONUS theaters
- Guard against theft and pilferage
- Degree of security required will determine the need for outside support
- References: FM 100-20, AR 380-



# SUMMARY

- Sensitive Items
- Classified Cargo
- Pilferable Items





On  
Learnin  
g



# On Learnin g

Question 1: True or False: The contents of a classified cargo shipment must be clearly marked on the outer container or package during shipment?

Answer 1: False. Classified cargo must not be identified on the outer shipping container.

# Documenting the Load

# Forms Used

- Forms:
  - FORSCOM Form 285-R, Vehicle Load Card
  - DD Form 1750, Packing List
  - DA Form 5748-R, Shipment Unit Packing List and Load Diagram
  - DD Form 1387 - Military Shipment Label
  - Destination Placard
  - Radio Frequency Identification Tags
  - Shippers Declaration of Dangerous Goods
  - DD Form 626, Motor Vehicle Inspection (Transporting Hazardous Materials)
  - DD Form 836, Dangerous Goods Shipping Paper / Declaration and Emergency Response Information



# **FORSCOM FORM 285-R**

**Vehicle Load Card**

# FORSCOM Form 285-R

- Vehicle Load plans are documented on FORSCOM Form 285-R

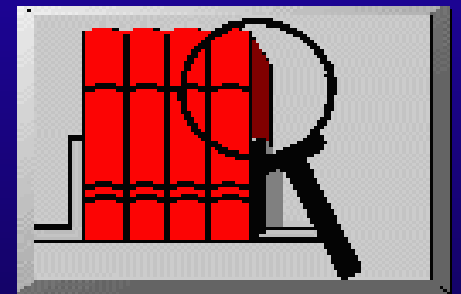
FORSCOM Form 285-R must be filled out for all vehicles which have a cargo load

Load plans are kept on file as part of the unit movement plan and revised / tested annually

# FORSCOM

## Form 285-R (Cont)

- Load cards can also be used to check cargo at terminals:
  - Check for loss or damage
  - Ensure particular cargo can be located when needed
- See example Form 285-R in FORSCOM/ARNG Reg 55-1, page 35



# FORSCOM FORM 285-R

## Vehicle Load Card

### VEHICLE LOAD CARD

(TB 55-46-1 & 2) and (FORSCOM Reg 55-1)

UNIT/UIC		VEH LIN NO		NOMEN/MOD NO		SEC/PLT A SGD		SHIPMENT UNIT NO		DATE COMPILED	
LENGTH OF VEH		WIDTH OF VEH		HEIGHT OF VEH		VEH EMPTY WT					
OPERATIONAL		REDUCED		OPERATIONAL		REDUCED		OPERATIONAL		REDUCED	
CARGO AREA						CARGO AREA CUBIC FT					
LENGTH		WIDTH		HEIGHT		OPERATIONAL		REDUCED			
NOT COMPUTED FOR HS TO MS						TEST LOAD VERIFIED BY				DATE	
CB/CG IS		INCHES FROM									
CARGO COMMENTS											

FORSCOM Form 285-R

# FORSCOM FORM 285-R

## Vehicle Load Card

Place bumper no. of vehicle here

(Cont)

UNIT/UIC		VEH LIN NO	NOMEN/MOD NO	SEC/PLT A SGD	SHIPMENT UNIT NO	DATE COMPILED
316th Trans Co WADSAA		X40009 01	TRK CARGO 12-1/2 TON M35A2			
LENGTH OF VEH		WIDTH OF VEH		HEIGHT OF VEH		VEH EMPTY WT

Unit Name and UIC

Vehicle LIN and Index

No. Nomenclature

(description) and Model

Ref: FORSCOM/ARNG Reg 55-1, p.35 No. of vehicle

# FORSCOM FORM 285-R

## Vehicle Load Card (Cont)

Bumper # HQ 75-111					
T					
(TB 55-46-1 & 2) and (FORSCOM Reg 55-1)					
UNIT/UIC	VEH LIN NO	NO. IN/OUT	SEC/PLT A SGD	SHIPMENT UNIT NO	DATE COMPILED
316th Trans Co	X40009	012-1/2 TON	A Sec	D000	2001/11/3
WADSAA		M35A2	2nd Plt	7	0
LENGTH OF VEH		WIDTH OF VEH		HEIGHT OF VEH	
				VEH EMPTY WT	

Section / Platoon

Shipment Unit No.  
(assigned by  
AUEL/OEL)

Date Compiled (YYYY/MM/DD)  
(Complete in pencil)

# FORSCOM FORM 285-R

## Vehicle Load Card

LENGTH OF VEH		WIDTH OF VEH		HEIGHT OF VEH		VEH-EMPTY WT
OPERATIONAL	REDUCED	OPERATIONAL	REDUCED	OPERATIONAL	REDUCED	
265	265	106	96	113	81	1318
CARGO AREA				CARGO AREA CUBIC FT		

Depending on the planned shipping configuration, either operational and/or reduced entries are made under length, width, and height of the vehicle.

# FORSCOM FORM 285-R

## Vehicle Load Card

Under Bows Cargo Body Loading Height not Cargo Deck Bed Height

(Cont)

	CARGO AREA			CARGO AREA CUBIC FT
LENGTH	WIDTH	HEIGHT	OPERATIONAL	REDUCED
14 7	88	60	443	277
NOT COMPUTED FOR HISTOIMS		TEST LOAD VERIFICATION		DATE

Normally 'Under Bows Capacity'

Normally 'Top of Side Racks Capacity'

Dimensions and weight of the cargo area

Ref: FORSCOM/ARNG Reg 55-1, p.35



# FORSCOM FORM 285-R

## Vehicle Load Card

NOT COMPUTED FOR HISTORICAL		TEST LOAD VERIFIED BY		DATE
CB/CG IS	132	INCHES FROM	FFE	
CARGO COMPARTMENT VIEW				

Center of balance /  
center of gravity  
(CB/CG) in inches

Point CB / CG  
calculated from  
(ref point) i.e.  
FFE = forward  
front edge

# FORSCOM FORM 285-R

## Vehicle Load Card

NOT COMPUTED FOR HSTO ME		TEST LOAD VERIFIED BY		DATE
CB/CG IS	132	INCHES FROM	FFI	Steve Irwin
CARGO COMPARTMENT VIEW				2002/11/30

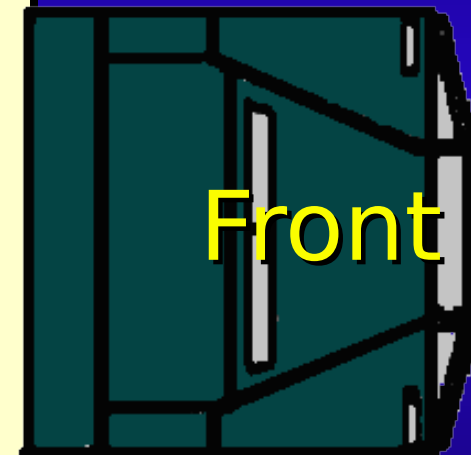
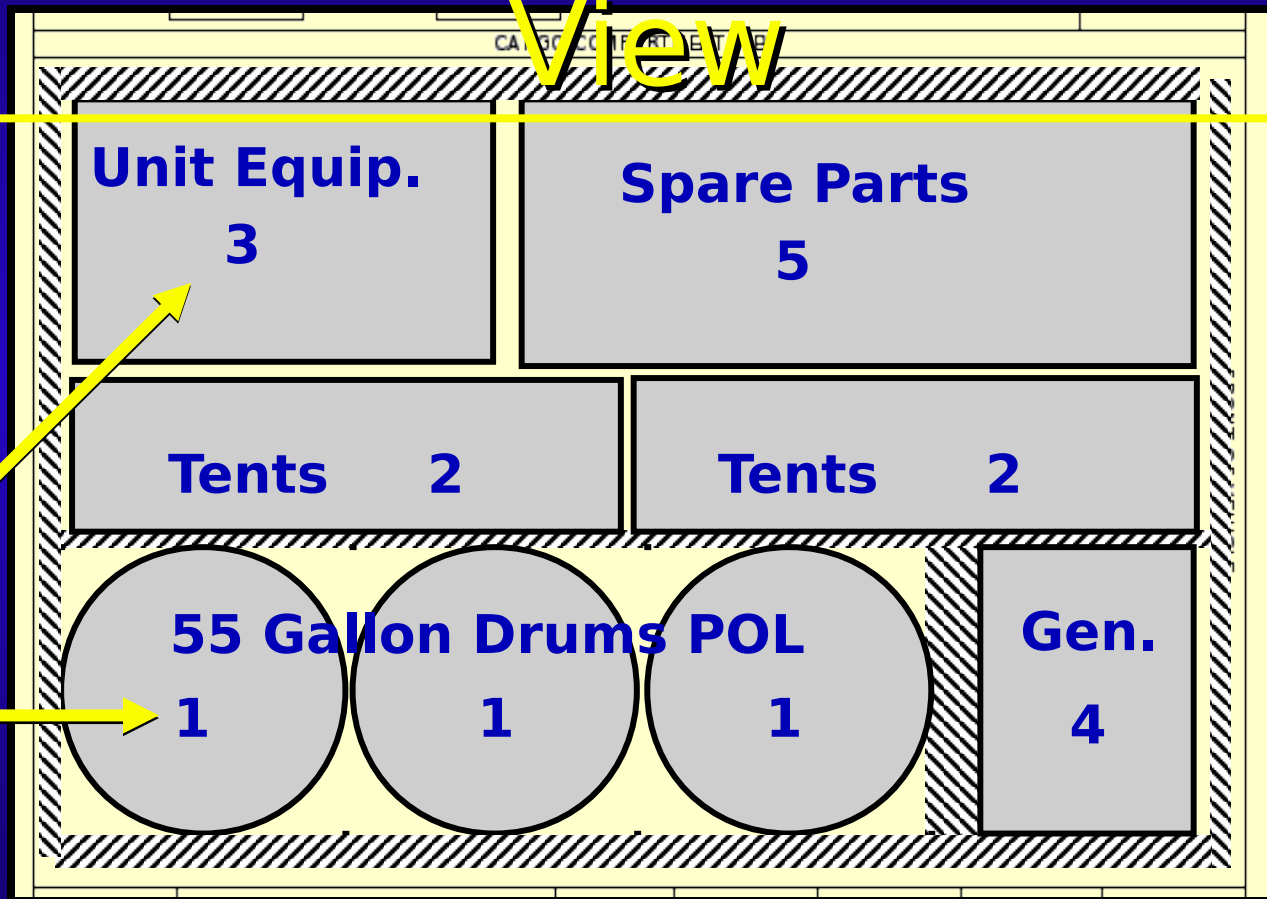
Verified by  
(in pencil)

Date verified  
(YYYY/MM/DD)  
(in pencil)

# FORSCOM FORM 285-R Cargo Compartment

View

Cargo  
Location  
Numbers



Cargo compartment view

Ref: FORSCOM/ARNG Reg 55-1, p.35

# FORSCOM FORM 285-R

## Cargo Description

CARGO LOC NO	CARGO DESCRIPTION & TYPE PACK	NO OF ITEMS	PC CUBIC FT	TOTAL CUBIC FT	PC WT	TOTAL WT
<b>1</b>	<b>POL - 55 Gal Drum</b>	<b>3</b>	<b>6.8</b>	<b>20.4</b>	<b>380</b>	<b>1140</b>

Cargo description for the three 55 gallon drums shown in the Cargo Compartment View section of the previous page

# FORSCOM FORM 285-R

## Cargo Description

CARGO LOC NO	CARGO DESCRIPTION & TYPE PACK	NO OF ITEMS	TOTAL CUBIC FT	PC WT	TOTAL WT
1	POL - 55 Gal Drum	3			

Location  
number  
from  
drawing

Cargo  
descriptio  
n and type  
pack

Number of  
items in  
this  
location

# FORSCOM FORM 285-R

## Cargo Description

CARGO LOC NO	CARGO DESCRIPTION & TYPE PACK	NO OF ITEMS	CU FT	TOTAL CUBIC FT	PC WT	TOTAL WT
1	POL - 55 Gal Drum	3	6.8	20.4	380	1140

CuFt of  
each piece

Total  
CuFt

Each  
piece  
weight  
(pounds)

Total  
weight of  
this  
location  
(pounds)

# FORSCOM FORM 285-R

## Cargo Description (Cont)

CARGO LOC NO	CARGO DESCRIPTION & TYPE PACK	NO OF ITEMS	PC CUBIC FT	TOTAL CUBIC FT	PC WT	TOTAL WT
1	POL - 55 Gal Drum	5	4.8	20.4	380	1140
2	Tent -Crate	2	24	48	80	160

Location  
number from  
drawing

Number of  
items in this  
location

Total weight of  
this location

# FORSCOM FORM 285-R

## Cargo Description

LOAD PLUS VEHICLE WT

**16650**

TDA/MTOE PARA AND LIN NO OF DRIVER

**Para 109 Line 03**

FORSCOM Form 285-R, 1 Mar 93

EDITION OF 1 AUG 80 MAY BE USED.

5-1/2

Total weight of load plus  
empty vehicle weight  
(AC)

MTOE Paragraph and  
Line No. of Driver

*Total weight of items  
loaded above the red  
line plus empty vehicle  
weight (DC)*



# Reserve Redline Concept

- Redline concept is only used by the Reserve component

Total  
cargo  
moving  
from  
HS to  
MS



CARGO LOC NO	CARGO DESCRIPTION & TYPE PACK	NO OF ITEMS	PC CUBIC FT	TOTAL CUBIC FT	PC WT	TOTAL WT
Cargo moving from the HS to the MS and then onto the A / SPOE (deployed equipment)						
<hr/>						
Cargo moving only from the HS to the MS (non-deployed equipment)						
<small>           CARGO PULL VEHICLE WT      CARGO WEIGHT      CARGO WEIGHT      CARGO WEIGHT      CARGO WEIGHT      CARGO WEIGHT      CARGO WEIGHT         </small>						

FORSCOM Form 285-R, 1 Mar 93      EDITION OF 1 AUG 80 MAY BE USED.      5-1/2X8-1/2

# FORSCOM FORM 285-R

Reverse side of  
form, top

Reverse  
total weight of BBPOT  
material

CARGO LOC NO	CARGO DESCRIPTION & TYPE/PACK	NO OF ITEMS	PC CUBIC FT	TOTAL CUBIC FT	PC WGT	TOTAL WGT
	WEIGHT OF BBPOT MATERIALS					<u>168</u>
	TOTALS +	<b>8</b>		<b>622</b>		<b>3470</b>
NUMBERS OF DD FORM 1750 (PACKING LIST) THIS LOAD		<b>= 5</b>				

Total No. of DD Form  
1750 (Packing Lists) for  
vehicle

Totals (Items,  
cube &  
weight)

# FORSCOM FORM 285-R

## Reverse (Cont)

REMARKS (List of BBPCT materials needed to load to include weight)

4 ea 4 X 4 X 12	80
12 ea 2 X 4 X 8	48
2 ea 5/8" Plywood 4 Ft X 8 Ft	<u>40</u>
	168lbs

### Remarks:

List BBPCT materials  
needed  
for cargo load - include  
weight

**DD Form 1750**

Packing List

# DD Form 1750

## Packing List

- DDD Form 1750

Must be prepared  
for EACH multi-  
pack box or  
container

<b>PACKING LIST</b>	PACKED BY	1. NO. BOXES	2a. REQUISITION NO.		
			2b. ORDER NO.		
3. END ITEM			4. DATE		
			5. PAGE _____ OF _____ PAGES		
			QUANTITIES REQUIRED		
BOX NO. (a)	CONTENTS - STOCK NUMBER AND NOMENCLATURE (b)	UNIT OF ISSUE (c)	INITIAL OPERATION (d)	RUNNING SPARES (e)	TOTAL (f)
6. THIS CERTIFIES THAT THE ITEMS LISTED HEREON ARE WITHIN THE SPECIFIED BOXES					
TYPED NAME AND TITLE			SIGNATURE		

DD Form 1750, SEP 70 (EG)

Designed using Perform Pro, WHS/DIOR, Aug 94

# DD Form 1750

## Packing List (Cont)

PACKING LIST		PACKED BY <b>316th Trans Co WADSAA</b>	1. NO. BOXES <b>1</b>	Vehicle Bumper No. 2a. REQUISITION NO. <b>HQ 7-T</b>
3. END ITEM			2b. ORDER NO. <b>D0021</b>	4. DATE

Packed by: Enter your unit name and UIC

Block 1: Number of inner boxes in the container (if

the form relates to a box/grate enter '1')

Block 2a: Requisition No. - Change this to "Vehicle Bumper Number" or

Block 2b: "Commercial Container Number" Shipment Unit Number from AUEL/OEL or DEL/UDL for the vehicle/container

# DD Form 1750 Packing List (Cont)

PACKING LIST		2b. ORDER NO.	
3. END ITEM		4. DATE 2001/11/30	
M35A2, Trk cargo 2 1/2 Ton		5. PAGE 1 OF 1 PAGES	
6. BOX NO.	7. CONTENTS	8. STOCK NUMBER AND NON INCLUTING	9. QUANTITIES REQUIRED
(a)	(b)	ISSUE (c)	INITIAL OPERATION (d)
			RUNNING SPARES (e)
			TOTAL (f)

Block 3: ~~End Item~~ This is information on either the vehicle

carrying the cargo (as shown) or the shipping container (eg.

'Box Shipping Metal 20ft. Serial #54280, HHC Seal

Block 4: Date of form compiled (YYYY/MM/DD) - Enter in

- Be specific

Block 5: Page number - Enter page number & total number of pages

Ref: FORSCOM/ARNG Reg 55-1, p.37

# DD Form 1750

## Packing List (Cont)

Column (a): **Box No.**

Use when shipping 2 or more boxes in a container to indicate the box number in which the items are packed. If form is for a single box/crate leave blank

BOX NO. (a)	CONTENTS - STOCK NUMBER AND NOMENCLATURE (b)



# DD Form 1750

## Packing List (Cont)

Column (b):

**Contents- Stock**

**Number &  
List items within the  
Nomenclature -  
box, crate or container.**

**List the National Stock  
Number &  
nomenclature/descripti  
on**

**Indicate BBPCT materials  
used and their weight at bottom**

BOX NO. (a)	CONTENTS - STOCK NUMBER AND NOMENCLATURE (b)	UNIT (c)
	<b>1234-23-2334-4454</b> <b>Chair, folding field</b>	
	<b>1234-23-2451-6284</b> <b>Desk, field</b>	
	<b>Wooden Crate</b>	

# DD Form 1750 Packing List (Cont)

BOX NO. (a)	CONTENTS - STOCK NUMBER AND NOMENCLATURE (b)	UNIT OF ISSUE (c)	QUANTITIES REQUIRED		
			<del>INITIAL OPERATION (d)</del>	<del>RUNNING SPARES (e)</del>	<del>TOTAL (f)</del>
	<div>Column (d) Change to read: <b>Packs, No. in box</b></div> <div>Column (e) Change to read: <b>"Weight of Each Item (lbs)"</b></div> <div>Column (f) Change to read: <b>"Total Weight (lbs)"</b></div>		<b>Packs No in box</b>	<b>Weight of Each Item (lbs)</b>	<b>Total Weight (lbs)</b>

# DD Form 1750 Packing List (Cont)

BOX NO.	CONTENTS - STOCK NUMBER AND NOMENCLATURE	UNIT OF ISSUE (c)	QUANTITIES REQUIRED		
			<del>INITIAL OPERATION</del> (d)	<del>RUNNING SPARES</del> (e)	<del>TOTAL</del> (f)
			Packs No in box	Weight of Each Item (lbs)	Total Weight (lbs)
		Ea	2	54	

**Column (c): Unit of Issue:** such as ('ea') [each] for individual items (eg. computer), or 'BX' [box] for packaged multi-items (eg. Pens)

**Column (d):**  
Packs, No. in box

**Column (e)**  
"Weight of Each Item (lbs)"

# DD Form 1750 Packing List (Cont)

BOX NO. (a)	CONTENTS - STOCK NUMBER AND NOMENCLATURE (b)	UNIT OF ISSUE (c)	QUANTITIES REQUIRED		
			<del>INITIAL OPERATION</del> (d)	<del>RUNNING SPARES</del> (e)	<del>TOTAL</del> (f)
			Packs No in box	Weight of Each Item (lbs)	Total Weight (lbs)
		Ea	2	54	108
			(entry for chairs)		
		Ea	1	100	100
			(entry for desk)		
		NA	NA		150
			(entry for crate [BBPCT])		
			<b>TOTAL</b>		<b>358</b>

Figure the total weight of this line and place in Column (f)

At the bottom of Column (f), draw a line and indicate the total weight of all listed items (ensure you include the weight of BBPCT materials used)

# DD Form 1750

## Packing List (Cont)

BOX NO. (a)	CONTENTS - STOCK NUMBER AND NOMENCLATURE (b)	UNIT OF ISSUE (c)	QUANTITIES REQUIRED		
			<del>INITIAL OPERATION (d)</del>	<del>RUNNING SPARES (e)</del>	<del>TOTAL (f)</del>
	<p><b>Must add statement:</b></p> <p>“This box (container) does (does not) contain hazardous material IAW 49 CFR ”</p>		Packs No in box	Weight of Each Item (lbs)	Total Weight (lbs)

# DD Form 1750 Packing List (Cont)

6. THIS CERTIFIES THAT THE ITEMS LISTED HEREON ARE WITHIN THE SPECIFIED BOXES					
TYPED NAME AND TITLE			SIGNATURE		
<b>Steve Irwin, 2LT, Unit Mvt Officer</b>			<b>Steve Croc Hunter Irwin</b>		
DD Form 1750, SEP 70 (EG)			DD Form 1750, SEP 70 (EG)		

Block 6: Name and title (normally  
primary or alternate UMO)

Block 7: Signature

# **DA Form 5748-R**

## **Shipment Unit Packing List and Load Diagram**

# DA Form 5748-R

- Can be used as a substitute for:  
FORSCOM Form 285-R or  
DD Form 1750
- Basically the combination of these  
two forms



# DA Form 5748-R (Cont)

SHIPMENT UNIT PACKING LIST AND LOAD DIAGRAM For use of this form, see FM 55-65; the proponent agency is TRADOC			PAGE  OF
1. DEPLOYING UNIT	2. UIC OR BUMPER NO.	3. TCN OR SEAL NUMBER	
4. SHIPMENT UNIT DESCRIPTION		5. DATE PACKED	
6. LENGTH	7. WIDTH	8. HEIGHT	12. LOCATION OF CG
9. CUBE	10. EMPTY WEIGHT	11. LOADED WEIGHT	

## 13. PACKING LIST

CARGO LOC. NO. <i>a</i>	CONTENTS (Description and Nomenclature) <i>b</i>	TYPE PKG. <i>c</i>	PKG. QTY. <i>d</i>	PKG. WEIGHT. <i>e</i>	TOTAL PKG. WEIGHT. <i>f</i>

# DA Form 5748-R (Cont)

**14. CERTIFICATION.** *This certifies that items listed hereon are contained within the specified packages.*

a. TYPED NAME

b. GRADE

c. TITLE

d. SIGNATURE

e. DATE

DA FORM 5748-R, MAR 89

USAPPCV 1.00

# DA Form 5748-R (Cont)

SHIPMENT UNIT PACKING LIST AND LOAD DIAGRAM For use of this form, see FM 55-65; the proponent agency is TRADOC			PAGE OF
1. DEPLOYING UNIT <b>A Co. 1-10 IN WABCAB</b>		2. UIC OR BUMPER NO. <b>A-41</b>	3. TCN OR SEAL NUMBER <b>AWAF6A1\$0D00010XX</b>
4. SHIPMENT UNIT DESCRIPTION		5. DATE PACKED	
6. LENGTH	7. WIDTH	8. HEIGHT	12. LOCATION OF CG

Block 1: Deploying Unit  
(Designation and UIC)

Block 2: Bumper Number/Container  
Identification Number

Block 3: TCN or Container Seal  
Number

# DA Form 5748-R (Cont)

SHIPMENT UNIT PACKING LIST AND LOAD DIAGRAM For use of this form, see FM 55-65; the proponent agency is STRADOC			PAGE <b>1</b> OF <b>1</b>
1. DEPLOYING UNIT <b>A Co. 1-10 IN WABCAB</b>		2. LIC OR BUMPER NO. <b>A-41</b>	3. TCN OR SEAL NUMBER <b>77</b>
4. SHIPMENT UNIT DESCRIPTION <b>M923A2, TRK, CGO 5TON X40794 33,</b>			5. DATE PACKED <b>2002/11/30</b>
6. LENGTH	7. WIDTH	8. HEIGHT	12. LOCATION OF CG

Block 4: **Shipment Description**  
(model, nomenclature and LIN/LIN Index)

Block 5: **Date Packed**  
(YYYY/MM/DD)

Note: use this block for continuation pages

# DA Form 5748-R

## (Cont)

Blocks 6 to 12 relate to the vehicle/container

Block 7:

Block 8:

Block 6:

Length

Width

Height

6. LENGTH <b>312</b>	7. WIDTH <b>116</b>	8. HEIGHT <b>121</b>	12. LOCATION OF CG  <b>132 from FFE</b>			
9. CUBE <b>2535</b>	10. EMPTY WEIGHT <b>20930</b>	11. LOADED WEIGHT <b>27904</b>				
13. PACKING LIST						
CARGO	CONTENT	TYPE	PKG.	PKG.	TOTAL PKG.	

Block 9:

Cube

Block 10: Empty Weight

Block 11: Loaded Weight

Block 12:  
Location of CG

# DA Form 5748-R

(Cont)

Blocks 13 relates to the cargo (Packing List)

13. PACKING LIST					
CARGO LOC. NO. <i>a</i>	CONTENTS (Description and Nomenclature) <i>b</i>	TYPE PKG. <i>c</i>	PKG. QTY. <i>d</i>	PKG. WEIGHT. <i>e</i>	TOTAL PKG. WEIGHT. <i>f</i>
<b>1</b>	<b>POL - 55 Gal Drum</b>	<b>Drum</b>			

Column a:  
Cargo  
Location  
Number

Column b:  
Contents  
(Description &  
Nomenclature  
)

Column c:  
Type Package

# DA Form 5748-R (Cont)

CARGO LOC. NO. <i>a</i>	CONTENTS (Description and Nomenclature) <i>b</i>	TYPE PKG. <i>c</i>	PKG. QTY. <i>d</i>	PKG. WEIGHT. <i>e</i>	TOTAL PKG. WEIGHT. <i>f</i>
1	POL - 55 Gal Drum	Drum	3	380	1140

Column d: Package Quantity

Column e: Package Weight (each)

Column f: Total Package Weight

# DA Form 5748-R (Cont)

CARGO LOC. NO. <i>a</i>	CONTENTS (Description and Nomenclature) <i>b</i>	TYPE PKG. <i>c</i>	PKG. QTY. <i>d</i>	PKG. WEIGHT. <i>e</i>	TOTAL PKG. WEIGHT. <i>f</i>
<b>1</b>	<b>POL - 55 Gal Drum</b>	<b>Drum</b>	<b>3</b>	<b>38 0</b>	<b>114 0</b>
<b>BBPCT</b>	<p>Indicate BBPCT materials used and their weight at the bottom of block 13</p> <p>120 ft 4 X 4 100 ft 2 x 4 7 lb 2 x 4 4 CGU-1 CGO Straps</p>				<b>250</b>



# DA Form 5748-R (Cont)

Block 14: *"Certification: This certifies that items listed herein are contained within the specified*

Blocks a-c: *packages"*  
Typed Name / Grade /  
Title

The diagram shows a yellow form with black text and red arrows pointing to specific fields. The form is titled '14 CERTIFICATION This certifies that items listed herein are contained within the specified packages.' Below the title are three columns: 'a. TYPED NAME', 'b. GRADE', and 'c. TITLE'. The 'a. TYPED NAME' column contains the text 'Russell 'The Gladiator' Crowe'. The 'b. GRADE' column is empty. The 'c. TITLE' column contains the text 'Unit Movement Officer'. Below these columns is a row for 'd. SIGNATURE' and 'e. DATE'. The 'd. SIGNATURE' column is empty. The 'e. DATE' column contains the text '2002/11/30'. At the bottom left of the form is the text 'DA FORM 5748-R, MAR 89' and at the bottom right is 'USAPPOV1.00'. Red arrows point from the text 'Block 14: Certification: This certifies that items listed herein are contained within the specified packages' to the title of the form. Red arrows point from the text 'Blocks a-c: Typed Name / Grade / Title' to the 'a. TYPED NAME', 'b. GRADE', and 'c. TITLE' columns. Red arrows point from the text 'Block d: Signature' to the 'd. SIGNATURE' column. Red arrows point from the text 'Block e: Date (YYYY/MM/DD)' to the 'e. DATE' column.

14 CERTIFICATION This certifies that items listed herein are contained within the specified packages.		
a. TYPED NAME	b. GRADE	c. TITLE
Russell 'The Gladiator' Crowe		Unit Movement Officer
d. SIGNATURE	e. DATE	
	2002/11/30	

DA FORM 5748-R, MAR 89 USAPPOV1.00

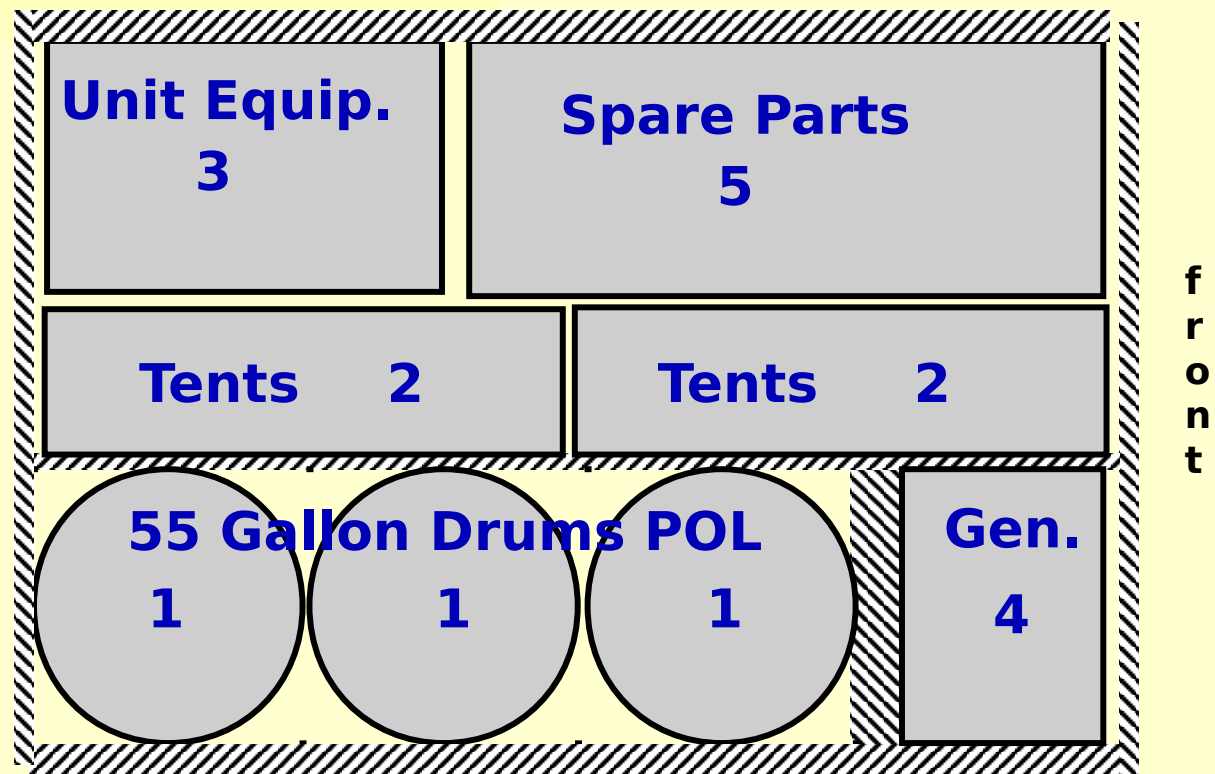
Block d: Signature Block e: Date (YYYY/MM/DD)

# DA Form 5748-R

## Reverse

15. LOAD DIAGRAM (Sketch cargo storage in space below)

Block 15:  
Load Diagram  
(Sketch cargo  
storage  
location)



# DA Form 5748-R

## Reverse (Cont)

### 16. REMARKS

**Tents are banded to warehouse pallet in two groups at location 2**

Block 16:

Remark  
S

# Documentation Requirements

- All vehicles (containing secondary cargo), containers, 463E pallets, and crates must display a separate DD Form 1750/DA Form 5748-R (Packing List) showing its complete contents
- Items that are not transported in a container/crate - such as banded shovels, do not require a packing list. However, these items must be listed on the load diagram if they are loaded on a truck or in a container
- A packing list is not required for a container that already has a contents list - such as a toolbox
- Do not list classified material on packing lists

# Documentation Requirements (Cont)

- Packing Lists (qty x 5) are distributed as follows:
  - One copy is filed in the unit movement plan
  - One copy is placed on the outside of the shipment unit where it is easily visible/accessible (placed inside a clear plastic sleeve for weatherproofing)
  - One copy is placed inside the shipment unit (includes sensitive item serial numbers)
  - One copy is prepared for the unit's representative (liaison team or supercargo)
  - One copy is retained by the hand receipt holder

# Sensitive Items Packing List (Inside Container List)

**Sensitive items listed individually by serial number**

BOX NO. (a)	CONTENTS - STOCK NUMBER AND NOMENCLATURE (b)	UNIT OF ISSUE (c)	QUANTITIES REQUIRED		
			<del>INITIAL OPERATION</del> (d)	<del>RUNNING SPARES</del> (e)	<del>TOTAL</del> (f)
<b>1</b>	<b>NSN 8315-06-123-456 NVG ANPVS 7b Serial Numbers: B1234, B1235, B2345, B3456</b>	<b>EA</b>	<b>Packs No in box 4</b>	<b>Weight of Each Item (lbs) 2</b>	<b>Total Weight (lbs) 8</b>
<b>2</b>	<b>Paper, Toilet</b>	<b>BX</b>	<b>4</b>	<b>3</b>	<b>1 2</b>
<b>3</b>	<b>Fluid, Correction</b>	<b>BX</b>	<b>1</b>	<b>2</b>	<b>2</b>

**Never place this packing list on the outside of a container. The Sensitive Items Packing List is only placed on the inside of a container**

# Sensitive Items Packing List (Outside Container List)

BOX NO. (a)	CONTENTS - STOCK NUMBER AND NOMENCLATURE (b)	UNIT OF ISSUE (c)	QUANTITIES REQUIRED		
			<del>INITIAL OPERATION (d)</del>	<del>RUNNING SPARES (e)</del>	<del>TOTAL (f)</del>
			<b>Packs No in box</b>	<b>Weight of Each Item (lbs)</b>	<b>Total Weight (lbs)</b>
<b>Note: No sensitive items listed</b>					
<b>1</b>	<b>Paper, Toilet</b>	<b>BX</b>	<b>4</b>	<b>3</b>	<b>12</b>
<b>2</b>	<b>Fluid, Correction</b>	<b>BX</b>	<b>1</b>	<b>2</b>	<b>2</b>

**Always** place a DD Form 1750 on the outside of your container that **does not** list the sensitive items




**DD Form 1387**

**Military Shipment  
Label**



# DD Form 1387

## Military Shipment Label

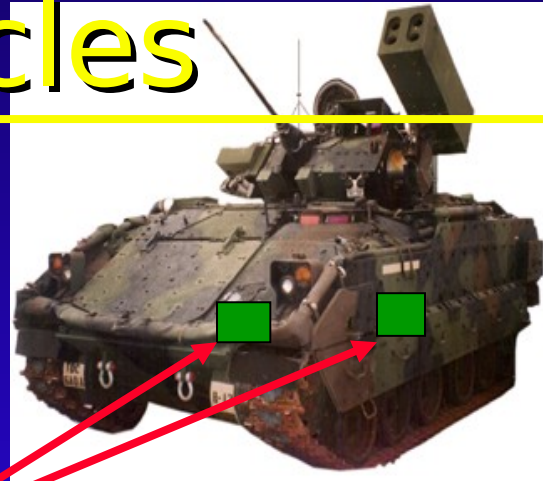
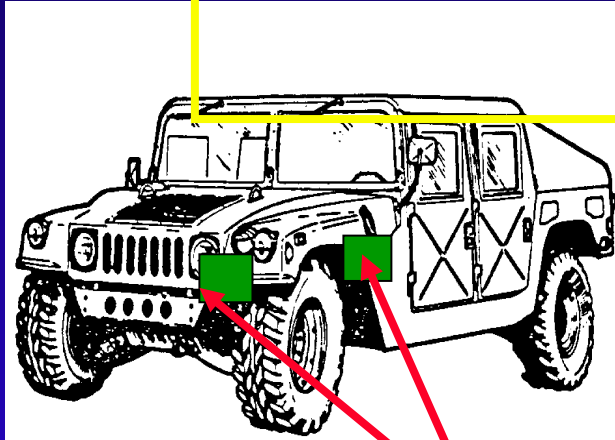
<b>1 TRANSPORTATION CONTROL NUMBER</b>  <b>W26DDJ54320111XXX</b>		<b>2 POSTAGE DATA</b>	
<b>3 FROM</b> W45QFS FT STOCKTON ATTN: ANGL-TR-SH ATTN: ANGL-R-SH FT STOCKTON TX 76789-5000		<b>4 TYPE SERVICE</b>	
<b>5. SHIP TO / POE</b> FT EUSTIS ATTN: ATZF-NT FT EUSTIS NEWPORT NEWS VA 23604-5300		<b>6 TRANSP PRIORITY</b>	
<b>7 POD</b>		<b>8 PROJECT</b> KMK	
<b>9 ULTIMATE CONSIGNEE OR MARK FOR</b>  <b>W26DDJ</b> FT EUSTIS ATTN: ATZF-NT FT EUSTIS NEWPORT NEWS VA 23604-5300		<b>10 WT THIS PC</b> 10	<b>11 RDD</b> 12/19/98
		<b>12 CU THIS PC</b> 8	<b>13 CHARGES</b> 784.99
		<b>14 DATE</b> 12/19/98	<b>15 FMS CASE</b>
		<b>16 PIECE NO.</b>  <b>9</b>	
		<b>17 TOTAL PIECES</b> of 10	

FORM APPROVED OMB NO 0704-0188

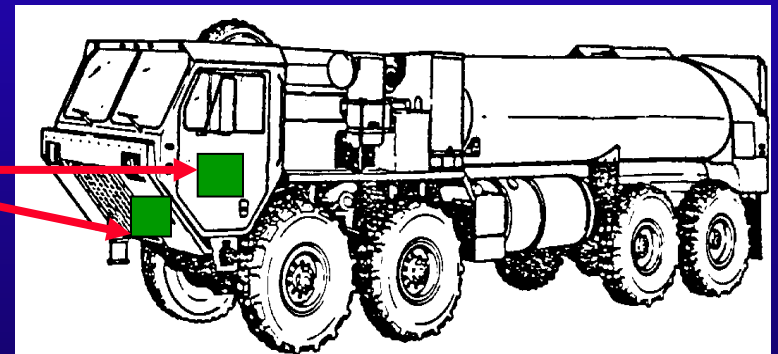
# MSL Guidelines

- Weigh and measure the dimensions of vehicles/containers and update DEL/UDL prior to printing MSLs - information shown on the MSLs must be accurate
- Ensure MSLs can be easily found (so that they can be scanned at transit locations)
- Do not mark the barcode for any reason - it will make it unreadable (if the label must be physically marked to show it has been scanned - mark somewhere other than the barcode)
- If the load of a vehicle/container is changed a new MSL must be produced
- When attaching MSLs, ensure the surface area where the label will be attached is clean and dry - this allows the adhesive on the label to stick
- Remove MSLs once the deployment is complete

# MSL Placement - Vehicles



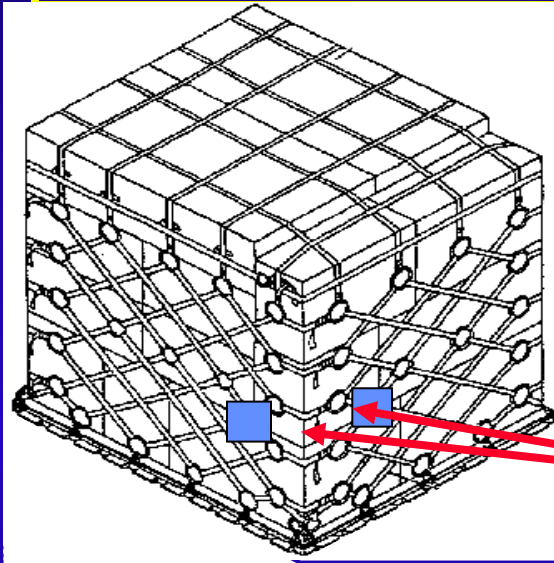
1. TRANSPORTATION CONTROL NUMBER  <b>AWCPPAA\$0D00010XX</b>		2. POSTAGE DATA	
3. FROM JF1 WAAF ULN: T1LVD19		4. TYPE SERVICE	
5. SHIP TO PN2 Camp Doha /JF1 <b>/ POE</b>		6. TRANSP. PRIORITY <b>3</b>	
7. POD PN2		9. PROJECT	
9. ULTIMATE CONSIGNEE OR MARK FOR UIC		10. WT THIS PC 5280	11. RDD
		12. CU THIS PC 769	13. CHARGES
		14. DATE 20021017	15. FMS CASE
Bumper Number : 635-3 Serial Number : 068784 Model Number : M998 Desc : TRK UTIL CRG/TRP CARR L: 187 W: 96 H: 74		16. PIECE NO.  <b>1</b>	
		17. TOTAL PIECES 1	



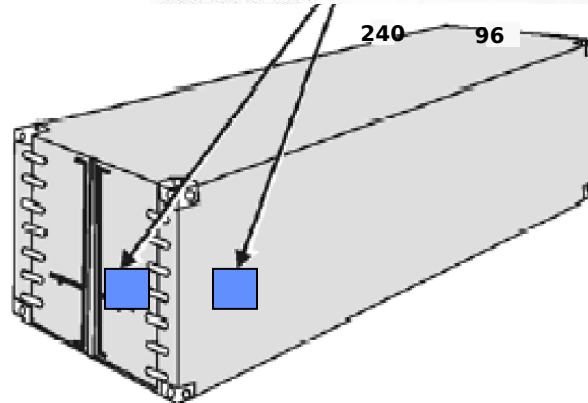
Attach MSLs to left front bumper (driver's side) and left side door (driver's side)

# MSL Placement - Pallets/Containers

Place MSLs on one end and on the adjacent side at the same end of a pallet, and for containers, attach MSLs to the right side door and to the right side of the container as you look at the door



1. TRANSPORTATION CONTROL NUMBER AWCPPAA\$0D00010XX		2. POSTAGE DATA	
3. FROM JF1 WAAF ULN: T1LVD19		4. TYPE SERVICE	
5. SHIP TO PN2 Camp Doha / JF1 / POE		6. TRANSP. PRIORITY <b>3</b>	
7. POD PN2		9. PROJECT	
9. ULTIMATE CONSIGNEE OR MARK FOR UIC		10. WT THIS PC 5280	
		11. RDD	
		12. CU THIS PC 769	
		13. CHARGES	
		14. DATE 20021017	
		15. FMS CASE	
Bumper Number : 635-3 Serial Number : 068784 Model Number : M998 Desc : TRK UTIL CRG/TRP CARR L: 187 W: 96 H: 74		16. PIECE NO.  1	
		17. TOTAL PIECES 1	



# DESTINATION PLACARD

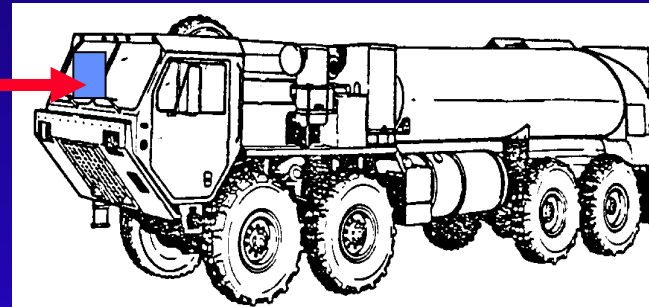
Print on 8.5 x 11 inch paper and place in a clear sealed plastic bag.

Unit: 118<sup>th</sup> INF BN, 2nd BDE, 1ID

UIC: WTA377

ULN: CDAAP30

Destination: Kosovo (Camp Bondsteel)

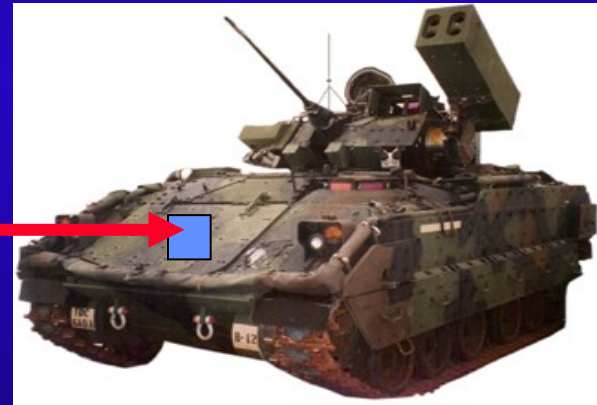


Unit: A Co., 1-36 INF BN, 1<sup>st</sup> BDE, 1AD

UIC: WAE3A0

ULN: EDAAP15

Destination: Kuwait (Camp Doha)



Unit: A Co., 1-36 INF BN, 1<sup>st</sup> BDE, 1AD

UIC: WAE3A0

ULN: EDAAC15

Destination: Kuwait (Camp



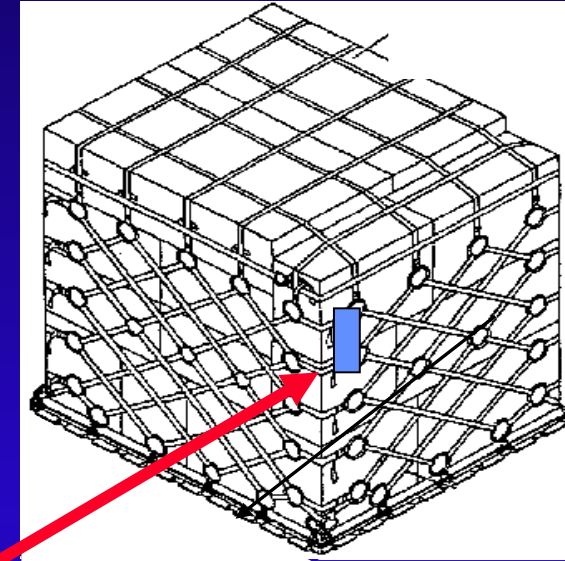
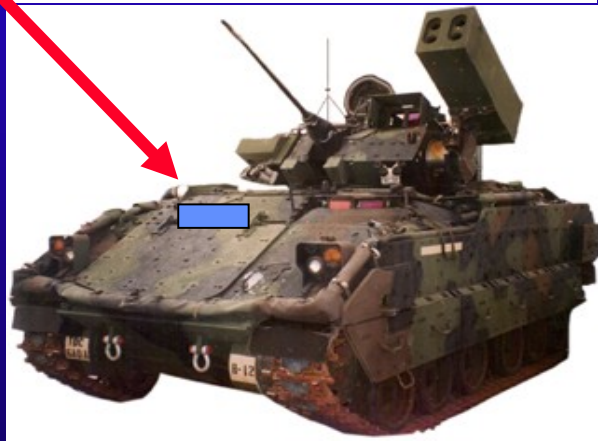
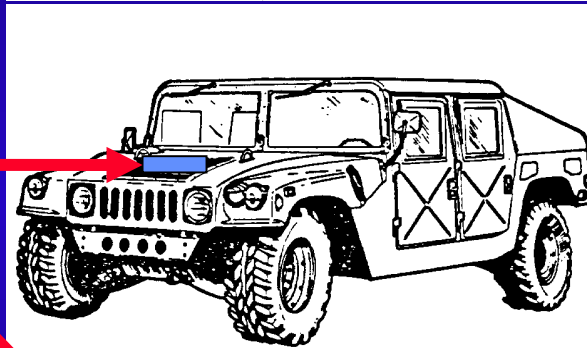
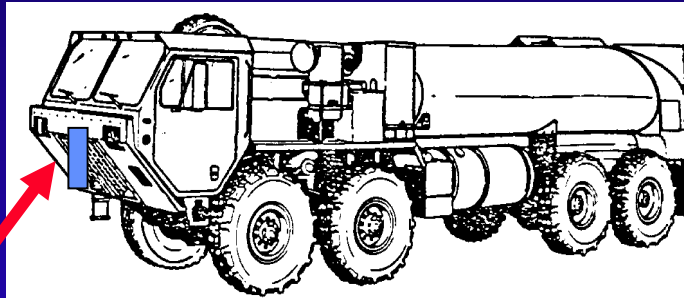


# Radio Frequency Tags

## Guidelines

- If Radio Frequency Identification (RFID) tags are being used - the required information must be entered before departing your home station
- RFID Tags are mounted (using two long nylon strips - more durable than plastic straps) as follows:
  - Vehicles: Attached to the top of the radiator grill (wheeled vehicles)/front of the vehicle (tracked vehicles)
  - Containers: Attached to the locking bar located on the door near the upper right-hand corner - you may also use zip ties to attach the RFID tag to containers (do not drills holes in containers to mount the tags)
  - 463L Pallets: Placed adjacent to the MSL
- Tie down both the top and the bottom of the tag so that it will not bounce and be damaged during shipment
- Note that the data on the RFID tag must be updated if the contents of the vehicle or container are changed

# RFID Tag Placement



ZIP-TIE TO  
LOCKING BAR;  
UPPER-RIGHT  
HAND CORNER  
ON THE DOOR



# **Hazardous Material Documentation**



# SDDG

## Shipper's Declaration of Dangerous Goods

SHIPPER'S DECLARATION FOR DANGEROUS GOODS							
<b>Shipper</b> ABC Company 1000 High Street Vancouver, Ontario Canada				<b>Air Waybill No.</b> 800 1234 5678 <b>Page</b> 1 of 1 <b>Pages</b> <b>Shipper's Reference Number</b> (optional)			
<b>Consignee</b> CBA Ltd 50 Rue de la Paix Paris 75 006 France				<b>For optional use</b> for Company logo name and address			
Two completed and signed copies of this Declaration must be handed to the operator.				<b>WARNING</b> Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.			
<b>TRANSPORT DETAILS</b> This shipment is within the limitations prescribed for: (delete non-applicable) <input checked="" type="checkbox"/> PASSENGER <input checked="" type="checkbox"/> CARGO <input type="checkbox"/> AIRCRAFT ONLY				<b>Airport of Departure</b> Vancouver			
<b>Airport of Destination</b> Paris, Charles de Gaulle				<b>Shipment type:</b> (delete non-applicable) <input checked="" type="checkbox"/> NON-RADIOACTIVE <input type="checkbox"/> RADIOACTIVE			
NATURE AND QUANTITY OF DANGEROUS GOODS							
Dangerous Goods Identification							
Proper Shipping Name	Class or Division	UN or ID No.	Pack. Group	Subs. Risk	Quantity and type of packing	Packing Inst.	Authorization
Mortine	6.1	UN1654	II		1 Steel drum 20 L	611	
Self-reactive solid type V (Benzene Sulphohydrazide)	4.1	UN3226	II		1 Fibreboard box 10 kg	430	
Perox	3	UN1263	II		2 Fibreboard boxes 4 L	305	
Perox	3	UN1263	III		1 Fibreboard box 30 L	309	
Vehicle (Flammable liquid powered)	9	UN3166			One automobile 1350 kg	900	
Chemical Lix	9	UN3316	II		1 Fibreboard box 3 kg	415	
<b>Additional Handling Information</b> The packages containing UN3226 must be shaded from direct sunlight, stored away from all sources of heat in a well ventilated area and not over-stowed with other cargo.							
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						<b>Name/Title of Signatory</b> B. Smith, Dispatch Supervisor <b>Place and Date</b> Vancouver 1 January 1999 <b>Signature</b> (see marking above) B. Smith	

# **DD Form 626**

## **Motor Vehicle Inspection (Transporting Hazardous Materials)**

# DD Form 626

- Motor Vehicle Inspection (Transporting Hazardous Materials) form
- Shipper must inspect vehicle at origin before loading. Receiver inspects vehicle at destination before unloading
- Used for Inspecting government and commercial vehicles (see instructions for commercial vehicle)

# DD Form 626 (Cont)

- Read instructions before completing this form. Instructions are found on the reverse side of the form.

MOTOR VEHICLE INSPECTION (TRANSPORTING HAZARDOUS MATERIALS)											
<i>(Read Instructions before completing this form.)</i>											
This form applies to all vehicles which must be marked or placarded in accordance with Title 49 CFR.						1. GOVERNMENT BILL OF LADING/TRANSPORTATION CONTROL NUMBER					
SECTION I - DOCUMENTATION						ORIGIN a.			DESTINATION b.		
2. CARRIER/GOVERNMENT ORGANIZATION											
3. DATE/TIME OF INSPECTION											
4. LOCATION OF INSPECTION											
5. OPERATOR(S) NAME(S)											
6. OPERATOR(S) LICENSE NUMBER(S)											
7. MEDICAL EXAMINER'S CERTIFICATE*											
8. (X if satisfactory at origin)									9. CVSA DECAL DISPLAYED ON COMMERCIAL EQUIPMENT*		
a. MILITARY HAZMAT ENDORSEMENT						d. ENG OR EQUIVALENT COMMERCIAL:			YES NO		
b. VALID LEASE*						e. DRIVER'S VEHICLE INSPECTION REPORT*			a. TRUCK/TRACTOR		
c. ROUTE PLAN						f. COPY OF 49 CFR PART 397			b. TRAILER		
SECTION II - MECHANICAL INSPECTION											
<i>All items shall be checked on empty equipment prior to loading. Items with an asterisk shall be checked on all incoming loaded equipment.</i>											
10. TYPE OF VEHICLE(S)						11. VEHICLE NUMBER(S)					
12. PART INSPECTED (X as applicable)						ORIGIN (1)		DESTINATION (2)		COMMENTS (3)	
						SAT UNSAT		SAT UNSAT			
a. SPARE ELECTRICAL FUSES											
b. HORN OPERATIVE											
c. STEERING SYSTEM											
d. WINDSHIELD/WIPERS											
e. MIRRORS											
f. WARNING EQUIPMENT											
g. FIRE EXTINGUISHER*											
h. ELECTRICAL WIRING											
i. LIGHTS AND REFLECTORS											
j. FUEL SYSTEM*											
k. EXHAUST SYSTEM											
l. BRAKE SYSTEM*											
m. SUSPENSION											
n. COUPLING DEVICES											
o. CARGO SPACE											
p. LANDING GEAR*											
q. TIRES, WHEELS, RIMS											
r. TAILGATE/DOORS*											
s. TARPULIN*											
t. OTHER (Specify)											
13. INSPECTION RESULTS (X one)						ACCEPTED		REJECTED			
<i>(If rejected give reason under "Remarks". Equipment will be approved if deficiencies are corrected prior to loading.)</i>											
14. SATELLITE MOTOR SURVEILLANCE SYSTEM: (X one)						ACCEPTED		REJECTED			
15. REMARKS											
16. INSPECTOR SIGNATURE (Origin)						17. INSPECTOR SIGNATURE (Destination)					
SECTION III - POST LOADING INSPECTION											
<i>This section applies to Commercial and Government/Military vehicles. All items will be checked prior to release of loaded equipment and shall be checked on all incoming loaded equipment.</i>											
18. LOADED LAW APPLICABLE SEGREGATION/COMPATIBILITY TABLE OF 49 CFR						ORIGIN (1)		DESTINATION (2)		COMMENTS (3)	
						SAT UNSAT		SAT UNSAT			
19. LOAD PROPERLY SECURED TO PREVENT MOVEMENT											
20. SEALS APPLIED TO CLOSED VEHICLE; TARPULIN APPLIED ON OPEN EQUIPMENT											
21. PROPER PLACARDS APPLIED											
22. SHIPPING PAPERS/DD FORM 836 FOR GOVERNMENT VEHICLE SHIPMENTS											
23. COPY OF DD FORM 626 FOR DRIVER											
24. SHIPPED UNDER DOT EXEMPTION 868											
25. INSPECTOR SIGNATURE (Origin)						26. DRIVER(S) SIGNATURE (Origin)					
27. INSPECTOR SIGNATURE (Destination)						28. DRIVER(S) SIGNATURE (Destination)					

# **DD Form 836**

**Dangerous Goods Shipping  
Paper / Declaration and  
Emergency Response  
Information for Hazardous  
Materials Transported by  
Government Vehicles,  
Containers or Vessels**

## DD Form 836

- Fill out a DD Form 836 if transporting HAZMAT on government vehicles or in any shipping container (including commercial 20' or 40' shipping containers) that is placed on a government vehicle for transportation
- Ensure other forms (HAZMAT guides from the current Emergency Response Guidebook [ERG]) are attached as appropriate

# DD Form 836 (Cont)

- Must list all HAZMAT, providing quantities & weight
- Only a person who has completed the Hazardous Material Course can certify this document.

HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT							
1.a. NOMENCLATURE: b. MODEL NO.:		c. CONTAINER SEAL NO.: d. SERIAL NO.:		e. TCN NUMBER: f. BUMPER NO.:			
DANGEROUS GOODS SHIPPING PAPER/DECLARATION AND EMERGENCY RESPONSE INFORMATION FOR HAZARDOUS MATERIALS TRANSPORTED BY GOVERNMENT VEHICLES/CONTAINERS OR VESSEL							
2. SHIPPER/ADDRESS/TELEPHONE NO.		3. LOCATION AND DATE SHIPMENT PREPARED		4. DATE OF TRAVEL		5. PAGE 1 OF _____ PAGES	
6. CARGO (To be completed by the unit or shipper Transportation Office (T.O.))							
PROPER SHIPPING NAME (Include RQ, Technical Names, Additional Information per 49 CFR 172.203, as required.) a.		HAZARD CLASS/DIVISION b.	UN/ID NUMBER c.	PACKING GROUP d.	PACKAGES NUMBER e.	NET TOTAL QUANTITY & GROSS WT. (kg) f.	TOTAL AMMO (NEW) h.
(Port personnel complete Items 7 and 8.)							
7. PORT OF EMBARKATION (OCONUS only)			8a. SHIP NAME (OCONUS only)			b. VOYAGE NUMBER	
9. CONSIGNEE							
10. REMARKS							
11a. COPY OF EMERGENCY GUIDE NUMBER(S) ATTACHED (See back of this form.)							
b. EMERGENCY NOTIFICATION. In all cases of accident, breakdown or fire, prompt notification must be given to shipper as noted in Item 2.							
c. 24-HOUR EMERGENCY ASSISTANCE TELEPHONE NUMBERS:							
DOD NON-EXPLOSIVE HAZMAT: 1-800-851-8061 AT SEA: 804-279-3131 (COLLECT)		DOD HAZ CLASS 1 (EXPLOSIVES) ONLY: 703-697-0218/0219 (COLLECT) (WATCH OFFICER)		SAFE HAVEN: 1-800-524-0331 NATIONAL RESPONSE CENTER (NRC): 1-800-424-8802 AT SEA: 202-267-2675 (COLLECT)		DOD RADIOACTIVE MATERIALS: ARMY: (703) 697-0218 (COLLECT) USAF: (202) 767-4011 USNMC: (757) 887-4692/ 1-888/528-0148 DLA: (717) 770-5283	
12. CONTAINER PACKING CERTIFICATE OR VEHICLE PACKING DECLARATION It is hereby declared that the goods described above have been packed/loaded into the container/vehicle identified above in accordance with applicable provisions. (Must be completed and signed for all container/vehicle loads by person responsible for packing/loading.)							
CONTAINER NO.		VEHICLE NO.					
a. TYPE OR PRINT NAME		b. SIGNATURE			c. DATE (YYYY MMDD)		
13. SHIPPER'S CERTIFICATION This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, international and national governmental regulations.							
a. TYPE OR PRINT NAME OF SHIPPER CERTIFIER				c. SIGNATURE(S) OF VEHICLE OPERATOR(S)			
b. SIGNATURE OF SHIPPER CERTIFIER							
14. (X as appropriate) PREPARED IN ACCORDANCE WITH: 49 CFR _____ IMDGC _____							
DD FORM 836, MAY 2000 PREVIOUS EDITION IS OBSOLETE. This form meets the requirements of SOLAS 74 Chapter VII, Regulation 5; MARPOL 73/78 Annex III, Regulation 4 and IMDG Code, General Introduction, Section 9.							
HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT							

# DD Form 836

- The emergency information for explosives is found on the reverse side of the form

- When carrying HAZMAT other than explosives, attach the appropriate guide from the current ERG

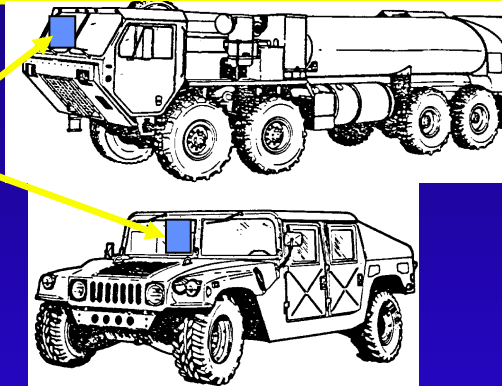
HAZMAT EMERGENCY RESPONSE INFO	
<b>EMERGENCY RESPONSE INFORMATION</b> Guide Numbers 112 and 114 from the U.S. Department of Transportation North American Emergency Response Guide Book (RSPA F5800.7) are reproduced hereon. These guides are applicable to hazard Class 1 materials (Explosives). Mark an X in the appropriate box:	
<input checked="checked" type="checkbox"/> <b>USE GUIDE 112 FOR EXPLOSIVES:</b> (1.1), (1.2), (1.3), (1.5) OR (1.6) Class A or B	<input type="checkbox"/> <b>USE GUIDE 114 FOR EXPLOSIVES:</b> (1.4) Class C
For all other hazardous materials or substances, annotate appropriate emergency Response Guide Book Guide Number in the block 11, a., and attach a copy of the guide number page or pages.	
<b>GUIDE 112</b> <b>POTENTIAL HAZARDS:</b> <b>FIRE OR EXPLOSION:</b> MAY EXPLODE AND THROW FRAGMENTS 1600 METERS (1 MILE) OR MORE IF FIRE REACHES CARGO. <b>HEALTH HAZARDS:</b> Fire may produce irritating, concussive and/or toxic gases. <b>PUBLIC SAFETY:</b> <b>CALL CHEMTREC AT 1-800-424-9300.</b> - Isolate spill or leak area immediately for at least 500 meters (1/3 mile) in all directions. Move people out of line of sight of the scene and away from windows. - Keep unauthorized personnel away and stay upwind. - Ventilate closed spaces before entering. <b>PROTECTIVE CLOTHING:</b> - Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. <b>EVACUATION:</b> <b>LARGE SPILL:</b> Consider initial evacuation for 800 meters (1/2 mile) in all directions. <b>FIRE:</b>	<b>GUIDE 114</b> <b>POTENTIAL HAZARDS:</b> <b>FIRE OR EXPLOSION:</b> MAY EXPLODE AND THROW FRAGMENTS 500 METERS (1/3 MILE) OR MORE IF FIRE REACHES CARGO. <b>HEALTH HAZARDS:</b> Fire may produce irritating, concussive and/or toxic gases. <b>PUBLIC SAFETY:</b> <b>CALL Emergency Response Telephone Number on Shipping paper first. If Shipping Paper not available or no answer, CALL CHEMTREC AT 1-800-424-9300.</b> - Isolate leak or spill area immediately for at least 100 meters (300 feet) in all directions. Move people out of line of sight of the scene and away from windows. - Keep unauthorized personnel away and stay upwind. - Ventilate, closed spaces before entering. <b>PROTECTIVE CLOTHING:</b> - Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. <b>EVACUATION:</b> <b>LARGE SPILL:</b> Consider initial evacuation for 250 meters (800 feet) in all directions. <b>FIRE:</b> - If rail car or trailer is involved in a fire, ISOLATE for 500 meters (1/3 mile) in all directions; also, initiate evacuation including emergency responders for 500



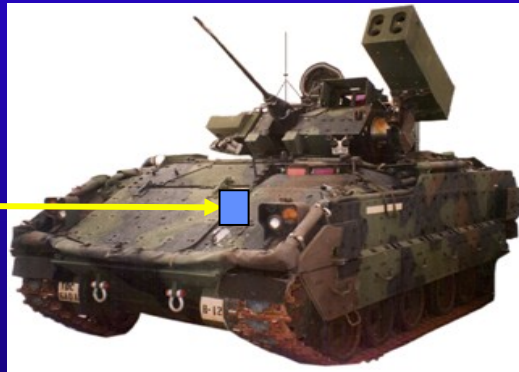
# Shipping Documents Stowage Location

## Wheeled Vehicles:

Seal all documents in a clear zip-lock plastic bag and place inside the vehicle on the passenger side's windscreen.



Tracked Vehicles: Seal all documents in a clear zip-lock plastic bag and tape to the outside front driver's side.



Containers: Seal all documents in a clear zip-lock plastic bag and tape to the outside of the door.



# Summary

- Forms:
  - FORSCOM Form 285-R, Vehicle Load Card
  - DD Form 1750, Packing List
  - DA Form 5748-R, Shipment Unit Packing List and Load Diagram
  - DD Form 1387 - Military Shipment Label
  - Destination Placard
  - Radio Frequency Identification Tags
  - Shippers Declaration of Dangerous Goods
  - DD Form 626, Motor Vehicle Inspection (Transporting Hazardous Materials)
  - DD Form 836, Dangerous Goods Shipping Paper / Declaration and Emergency Response Information



On  
Learnin  
g



# On Learnin g

Question 1: Where can you find guidance on filling out FORSCOM Form 285-R?

Answer 1: FORSCOM/ARNG Regulation 55-1.



# On Learnin g

Question 2: What is the purpose of DD Form 1750?

Answer 2: The DD Form 1750 is used to document the contents of packages, boxes, pallets or any other container that consists of multiple cargo items.



# On Learnin g

Question 3: DA Form 5748-R can be used as an authorized substitute for what other forms?

Answer 3: FORSCOM Form 285-R and DD Form 1750



# On Learnin g

Question 4: Load cards are not just used to document loads. What else can they be used for?

Answer 4: They are also used to check for lost or damaged cargo at terminals or to find a particular piece of cargo.



# On Learnin g

Question 5: Which form must be completed when shipping hazardous material using government vehicles or containers?

Answer 5: DD Form 836 is used when shipping hazardous material using government vehicles or containers.



A wooden-framed chalkboard with a black surface. The text "Let's Review" is written in a large, yellow, sans-serif font. The chalkboard is set against a solid blue background.

Let's  
Review



On  
Review



## On Review

Question 1: What should you check to ensure that secondary loads in the back of a unit vehicle are correctly prepared for movement?

Answer 1: Make sure the items are properly loaded, blocked and braced, protected from the elements and properly lashed to the vehicle.



## On Review

Question 2: Where can you find the axle weight capacity of a vehicle?

Answer 2: The vehicle data plate lists each axle weight carrying capacity.



## On Review

Question 3: What is the most important aspect of shipping classified material?

Answer 3: You must never indicate that there is classified material on the outside of a package or shipping container



## On Review

Question 4: What form can be used as both a vehicle load form and a packing list form?

Answer 4: DA Form 5748-R, Shipment Unit Packing List and Load Diagram.



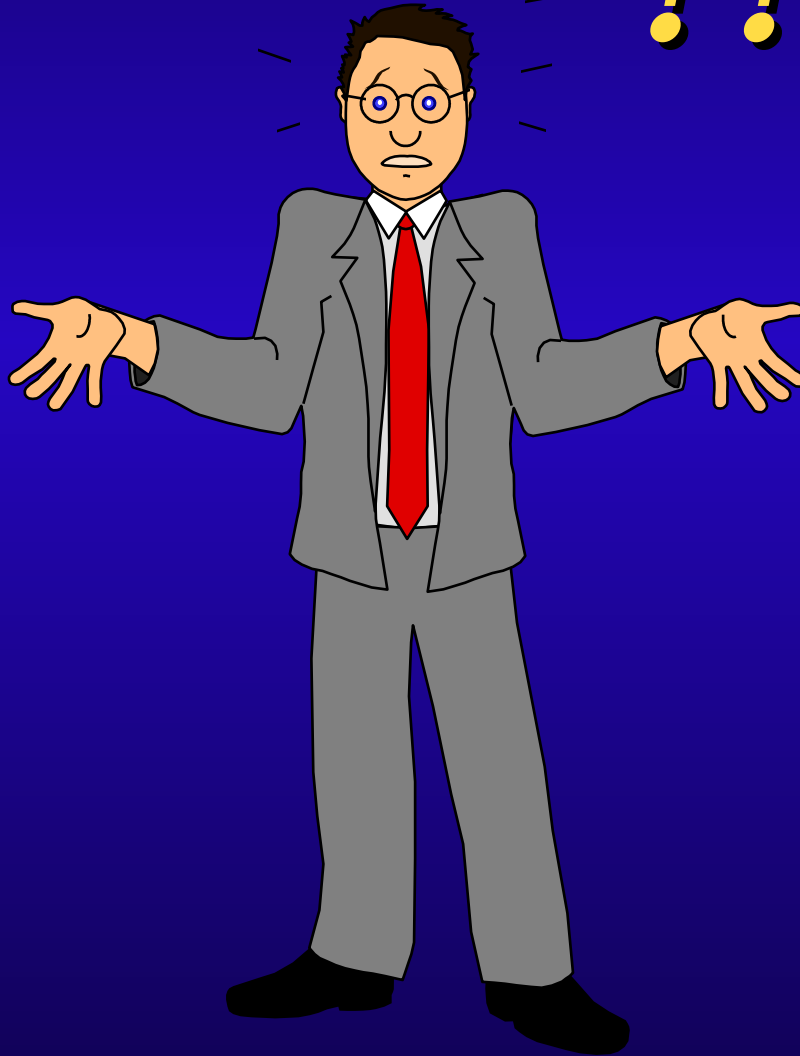
## On Review

Question 5: What form is used to inspect a vehicle when it is transporting hazardous materials?

Answer 5: DD Form 626, Motor Vehicle Inspection (Transporting Hazardous Materials).

# *QUESTIONS*

???





# PRACTICAL EXERCISE

